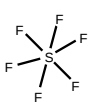
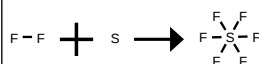


Query

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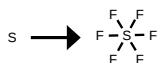

Rx-ID: 26139546 [View in Reaxys](#)

Yield	Conditions & References
90 %	in further solvent(s), fluorination (N₂ carrier gas (ratio F/N₂ 1:5), 0 to -5.deg.C, als solvent freon-11); low temp. fractional condensation; IR spectroscopy Padma, D. K.; Kalbankeri, R. G.; Suresh, B. S.; Bhat, V. Subrahmanya; Indian Journal of Chemistry, Section A: Inorganic, Physical, Theoretical & Analytical; vol. 30; (1991); p. 172 - 176 ; (from Gmelin) View in Reaxys
	Moissan, H.; Ann. Chim. Phys.; vol. 24; nb. 6; (1891); p. 224 - 282 ; (from Gmelin) View in Reaxys
	with solid F₂ (at temp. of liq. H₂) does not react; Moissan, H.; Dewar, J.; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 136; (1903); p. 785 - 788 ; (from Gmelin) View in Reaxys
	With glass or H₂O in neat (no solvent), byproducts: sulfur oxide fluorides; excess sulfur; presence of glass or moisture (provision of oxygen); under inflammation; Moissan, H.; Lebeau, S.; Ann. Chim. Phys.; vol. 26; (1902); p. 145 - 178 View in Reaxys Moissan, H.; Lebeau, S.; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 130; (1900); p. 865 - 871 View in Reaxys Moissan, H.; Lebeau, S.; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 132; (1901); p. 374 - 381 View in Reaxys vol. S: MVol.B3; 82, page 1711 - 1712 ; (from Gmelin) View in Reaxys
	With bromine in neat (no solvent), Pt vessel; common temps. (or 100.deg.C); introduction of F₂ into soln. of Br₂ in S;; only small yield of SF₆; vol. S: MVol.B3; 82, page 1711 - 1712 View in Reaxys Jaenckner, W.; Diss. Breslau T. H. 1933, S. 12 ; (from Gmelin) View in Reaxys
	in neat (no solvent), byproducts: sulfur fluorides; introduction of F₂ to molten S;; washed (alkali hydroxide soln.); passed through heated metal tube; repeatedly washed (Ca(OH)₂/alkali hydroxide); dried in absorption dryer; Porter, R. W.; Chem. Eng.; vol. 55; nb. 4; (1948); p. 102 - 105 View in Reaxys vol. S: MVol.B3; 83, page 1712 - 1714 ; (from Gmelin) View in Reaxys
	in neat (no solvent), byproducts: sulfur fluorides; introduction of F₂ under immediate infammation of sulfur; drawing of apparatus and detailed description given;; passed over molten KOH (removal of sulfur fluorides and SO₂); stored over aq. KOH for several days; passed over CaCl₂ and through anhydrous alc.; condensed (-60.deg.C); passed through H₂O and concd. H₂SO₄ (removal of alc.); repeated sublimation; vol. S: MVol.B3; 83, page 1712 - 1714 ; (from Gmelin) View in Reaxys
	in neat (no solvent), copper apparatus; excess sulfur; exclusion of oxygen and moisture; under inflammation; Moissan, H.; Lebeau, S.; Ann. Chim. Phys.; vol. 26; (1902); p. 145 - 178 View in Reaxys Moissan, H.; Lebeau, S.; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 130; (1900); p. 865 - 871

	View in Reaxys Moissan, H.; Lebeau, S. ; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 132; (1901); p. 374 - 381 View in Reaxys vol. S: MVol.B3; 82, page 1711 - 1712 ; (from Gmelin) View in Reaxys
	in neat (no solvent), copper apparatus; Earwicker, G. A.; Fear, E. J. P.; Chem. Ind.; (1954); p. 903 - 904 View in Reaxys vol. S: MVol.B3; 83, page 1712 - 1714 ; (from Gmelin) View in Reaxys
	in neat (no solvent), introduction of F₂ under immediate infammation of sulfur, no heating (exclusion of moisture); detailed description of apparatus and handling given;; condensed (liquid air); passed over CaCl₂; condensed (-78.deg.C); repeated fractionating; vol. S: MVol.B3; 83, page 1712 - 1714 ; (from Gmelin) View in Reaxys
	in neat (no solvent), introduction of F₂; detailed description of apparatus and handling given;; first condensation (cooling by concd. HCl/ice) of lower sulfur fluorides; second condensation (cooling by liquid air or CO₂/alc.) of SF₆; passed through water; dried over P₂O₅; reapeated sublimation; vol. S: MVol.B3; 83, page 1712 - 1714 View in Reaxys Yost, D. M.; Simons, J. H.; Inorganic syntheses, Bd. 1, New York-London 1939, S. 121 ; (from Gmelin) View in Reaxys
	in neat (no solvent) vol. S: MVol.B3; 83, page 1712 - 1714 View in Reaxys Patent; Gall, J. F.; Pennsylvania Salt Manufg. Co.; US2462379; (1949); C. (East-Germ.) II; (1949); p. 1329 View in Reaxys Patent; Gall, J. F.; Pennsylvania Salt Manufg. Co.; US2462379; (1949); C. A.; (1949); p. 3575 View in Reaxys Patent; Gall, J. F.; Pennsylvania Salt Manufg. Co.; US2555739; (1951); C. A.; (1951); p. 7757 ; (from Gmelin) View in Reaxys
	with solid F₂ (at temp. of liq. H₂) does not react; vol. S: MVol.A3; 5.2, page 694 - 699 ; (from Gmelin) View in Reaxys
	vol. F: SVol.1; 18, page 99 - 101 View in Reaxys vol. S: MVol.A3; 5.2, page 694 - 699 View in Reaxys Klemm, W.; Henkel, P.; Z. Anorg. Chem.; vol. 207; (1932); p. 73 - 86 ; (from Gmelin) View in Reaxys
	in neat (no solvent), byproducts: sulfur fluorides; introduction of F₂ under immediate infammation of sulfur; drawing of apparatus and detailed description given;; passed over molten KOH (removal of sulfur fluorides and SO₂); stored over aq. KOH for several days; passed over CaCl₂ and through anhydrous alc.; condensed (-60.deg.C); passed through H₂O and concd. H₂SO₄ (removal of alc.); repeated sublimation; Schumb, W. C.; Gamble, E. L.; Journal of the American Chemical Society; vol. 52; (1930); p. 4302 - 4308 ; (from Gmelin) View in Reaxys
	in neat (no solvent), introduction of F₂ under immediate infammation of sulfur, no heating (exclusion of moisture); detailed description of apparatus and handling given;; condensed (liquid air); passed over CaCl₂; condensed (-78.deg.C); repeated fractionating;

Klemm, W.; Henkel, P.; Z. Anorg. Chem.; **vol.** 207; (1932); p. 73 - 86 ; (from Gmelin)

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Rx-ID: 26448725 [View in Reaxys](#)

Yield	Conditions & References
	With mercury(II) fluoride in neat (no solvent), in presence of Cl₂, upon heating at 400 - 1000.deg.C; Patent; anonymous; E. I. du Pont de Nemours & Co.; GB805860; (1958); C. A.; (1959); p. 10685 ; (from Gmelin) View in Reaxys
	With HgF₂ in neat (no solvent), in presence of Cl₂, upon heating at 400 - 1000.deg.C; vol. Hg: MVol.B2; 6, page 411 - 413 ; (from Gmelin) View in Reaxys



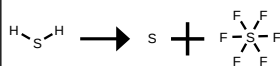
Rx-ID: 26173826 [View in Reaxys](#)

Yield	Conditions & References
	With chlorine, sulfur in neat (no solvent), heating for 3-5 hours at 400-500.deg.C in presence of Cl₂; vol. Ag: MVol.B1; 5.3.8.2, page 298 - 299 View in Reaxys Patent; anonymous; E. I. du Pont de Nemours & Co.; GB805860; (1958); C. A.; (1959); p. 10685 ; (from Gmelin) View in Reaxys



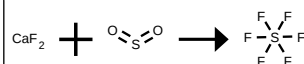
Rx-ID: 26535671 [View in Reaxys](#)

Yield	Conditions & References
	With sulfur, at 300 .deg.C; Ruff, O.; Vidic, E.; Z. Anorg. Chem.; vol. 143; (1925); p. 178 - 178 View in Reaxys Ruff, O.; Vidic, E.; Z. Anorg. Chem.; vol. 143; (1925); p. 180 - 180 ; (from Gmelin) View in Reaxys
	With S, at 300 .deg.C; vol. Ru: MVol.; 15, page 34 - 36 ; (from Gmelin) View in Reaxys

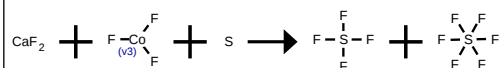


Rx-ID: 26170664 [View in Reaxys](#)

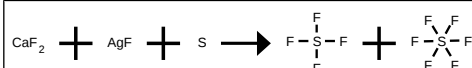
Yield	Conditions & References
	With FH*F_{0.5}K_{0.5}, byproducts: F₂; Electrochem. Process; electrolyte: KF*2HF; anode: amorphous carbon; temp.: 120.deg.C Hisasue, M.; Asahi Garasu Kenkyu Hokoku; vol. 15; (1965); p. 127 - 138; C.A.; vol. 64; (1966); p. 17034 View in Reaxys vol. S: SVol.4a/b; 1.3.9.1.4, page 241 - 243 ; (from Gmelin) View in Reaxys


 Rx-ID: 26409751 [View in Reaxys](#)

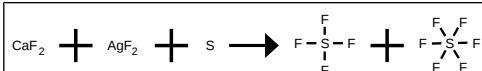
Yield	Conditions & References
	in neat (no solvent), introduction of dry SO₂ into molten CaF₂ at 1400.deg.C; (grey iron foundry); Roll, F.; Zentralbl. Gewerbehyg. Unfallverhuet.; vol. 16; (1929); p. 78 - 80 View in Reaxys vol. S: MVol.B3; 82, page 1711 - 1712 ; (from Gmelin) View in Reaxys


 Rx-ID: 26448755 [View in Reaxys](#)

Yield	Conditions & References
	in neat (no solvent), careful exclusion of moisture; freshly prepared CoF₃ (from F₂/CoCl₂); vac.; shaking; reaction starts at ambient temps.; heating to 120.deg.C (2h); discoloration to light red marks end of reaction;; condensed (liquid air); fractionate distillation (removal of SF₆); vol. S: MVol.B3; 79, page 1706 - 1708 View in Reaxys Jaenckner, W.; Diss. Breslau T. H. 1933, S. 7 View in Reaxys Luchsinger, W.; Diss. Breslau T. H. (1935) 1936, S. 23 ; (from Gmelin) View in Reaxys


 Rx-ID: 26448756 [View in Reaxys](#)

Yield	Conditions & References
	in neat (no solvent), careful exclusion of moisture; vac.; shaking; reaction starts at ambient temps.; heating at 120.deg.C (2h);; condensed (liquid air); fractionate distillation; further byproducts: low sulfur fluorides; vol. S: MVol.B3; 79, page 1706 - 1708 View in Reaxys Luchsinger, W.; Diss. Breslau T. H. (1935) 1936, S. 28 View in Reaxys Luchsinger, W.; Diss. Breslau T. H. (1935) 1936, S. 38 ; (from Gmelin) View in Reaxys


 Rx-ID: 26448757 [View in Reaxys](#)

Yield	Conditions & References
	in neat (no solvent), careful exclusion of moisture; vac.; shaking; reaction starts at ambient temp.; heating at 120.deg.C (2h);; condensed (liquid air); fractionate distillation (removal of SF₆); vol. S: MVol.B3; 79, page 1706 - 1708 View in Reaxys Luchsinger, W.; Diss. Breslau T. H. (1935) 1936, S. 28 View in Reaxys Luchsinger, W.; Diss. Breslau T. H. (1935) 1936, S. 38 ; (from Gmelin) View in Reaxys