



# **S Sulfur-Nitrogen Compounds: Compounds with Sulfur of Oxidation Number IV (Gmelin Handbook of Inorganic and Organometallic Chemistry - 8th edition) (Part 8)**

*Norbert Baumann, Hans-Jürgen Fachmann, Brigitte Heibel, Reimund Jotter, Birgit Ledü*

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The volume describes about 1250 acyclic sulfur-nitrogen compounds with three- and four-coordinate sulfur in the formal oxidation state IV. Major classes of compounds comprise the species  $X_2S=NR$  ( $X$ =halogen, OR', NR'<sup>2</sup>, etc.;  $R$ =H, halogen, organyl;  $R'$ =organyl),  $(R_2N)_3S^+$  ( $R$ =alkyl),  $R_2NS(O)X$  ( $X$ =halogen, OH, OR, SR, NR<sub>2</sub>,  $R$ =organyl),  $(OSNH)_x$ ,  $F_2S(NR_2)_2$ , and  $F_3SNR_2$ . N, N-Diethylamidotrifluorosulfur, also known under the acronym DAST, has become a very popular fluorinating agent in recent years.

Correspondingly, the use of DAST in inorganic and organic chemistry is exemplified with numerous reactions. Some examples are the metathetical exchange reactions converting reactive chlorides into fluorides:  $SOCl_2 \rightarrow SOF_2$ ,  $PCl_3 \rightarrow PF_3$ ,  $(CH_3)_3SiCl \rightarrow (CH_3)_3SiF$ , and  $RC(O)Cl \rightarrow RC(O)F$ . Others include the conversion of  $(C_6H_5)_3P$  into  $(C_6H_5)_3PF_2$  and of  $(R_3NC(S)S)_2$  into  $R_2NCF_3$ ,  $R$ =alkyl. In organic chemistry, fluorides are easily accessible from alcohols, geminal fluorides  $RR'CF_2$  from the respective aldehydes or ketones, and acyl fluorides  $RC(O)F$  from carboxylic acids by using DAST. Because DAST is easy to handle and gives clean reactions in syntheses, this Gmelin volume devotes much space to the description of the chemical and physical properties of DAST.

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