



>>Derivative: Trifluoromethyl ether

Synonym(s): 4-(Trifluoromethoxy)aniline. α,α,α -Trifluoro-*p*-anisidine

CAS Registry Number: 461-82-5

Molecular Formula: $C_7H_6F_3NO$

Molecular Weight: 177.126

Accurate Mass: 177.040148

Percentage Composition: C 47.47%; H 3.41%; F 32.18%; N 7.91%; O 9.03%

Boiling Point: Bp_{10} 73-75°

Density: d 1.31

Refractive Index: n_D^{25} 1.4605

Aldrich: 33705-6

Fluka: 91752

>>Derivative: Trifluoromethyl ether, *N*-Me

CAS Registry Number: 41419-59-4

Molecular Formula: $C_8H_8F_3NO$

Molecular Weight: 191.153

Accurate Mass: 191.055798

Percentage Composition: C 50.27%; H 4.22%; F 29.82%; N 7.33%; O 8.37%

Boiling Point: Bp_{15} 96-98°

>>Derivative: Trifluoromethyl ether, *N,N*-di-Me

Molecular Formula: $C_9H_{10}F_3NO$

Molecular Weight: 205.179

Accurate Mass: 205.071448

Percentage Composition: C 52.69%; H 4.91%; F 27.78%; N 6.83%; O 7.80%

Boiling Point: $Bp_{9.5}$ 86°

Density: d 25

Refractive Index: n_D^{25} 1.4671

References:

- Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **1**, 1210B; 1211C; **2**, 250B; 358B, (*ir*)
Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **2**, 485B; 485C; 1180C; 1365B, (*nmr*)
Aldrich Library of NMR Spectra, **5**, 57A, (*pmr*)
De'Conno, E., *Gazz. Chim. Ital.*, 1917, **47**, 113, (*N*-octadecanoyl)
Boratynski, K., *Fresenius' Z. Anal. Chem.*, 1935, **102**, 421, ($PO_4^{3(-)}$)
Lunde, G. *et al.*, *Z. Physiol. Chem.*, 1937, **247**, 197, (*N*-butanoyl)
Wenger, P. *et al.*, *Helv. Chim. Acta*, 1943, **26**, 1465, (*detn, Ag*)
Welcher, F.J., *Organic Analytical Reagents*, Van Nostrand, New York, 1947, **1**, 235, (*use*)
Porai-Koshits, B.A. *et al.*, *Zh. Obshch. Khim.*, 1947, **17**, 1774-1787; *CA*, **42**, 5863h, (*N*-benzylidene, *synth, props*)
McCrone, W.C. *et al.*, *Anal. Chem.*, 1949, **21**, 306-307, (*N*-benzylidene, *synth, cryst struct*)
Lambert, J.L. *et al.*, *Anal. Chem.*, 1951, **23**, 1247, (*detn, IO_3^{(-)}*)
Boehme, W.R., *J.A.C.S.*, 1953, **75**, 2502, (*benzyl ether, synth*)
Org. Synth., Coll. Vol., **3**, 1955, 140, (*ethers*)
Yagupolskii, L.M. *et al.*, *Zh. Obshch. Khim.*, 1957, **27**, 518-528; *J. Gen. Chem. USSR (Engl. Transl.)*, 1957, **27**, 587-594, (*trifluoromethyl ether*)
Forbes, W.F. *et al.*, *Can. J. Chem.*, 1958, **36**, 1371; 1959, **37**, 1294, (*uv*)
Broyles, M.H. *et al.*, *J.O.C.*, 1960, **25**, 2233, (*diacetamate*)
Fr. Pat., 1961, M940; *CA*, **58**, 3354h, (*synth, pharmacol, triclacetamol*)
Neilson, T. *et al.*, *J.C.S.*, 1962, 371, (*synth*)
Sheppard, W.A. *et al.*, *J.O.C.*, 1964, **29**, 1, (*trifluoromethyl ether*)
Austrian Pat., 1965, 243 263; *CA*, **64**, 2069, (*nicotinate*)
Sheppard, W.A. *et al.*, *J.A.C.S.*, 1965, **87**, 2410, (*trifluoromethyl ether N-Me, trifluoromethyl N,N-di-Me*)
de Courville, A. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1966, **262**, 1196
Rohrbach, P. *et al.*, *Therapie*, 1966, **21**, 1063, (*nicotinate*)
Dittert, L.W. *et al.*, *J. Pharm. Sci.*, 1968, **57**, 774, (*diacetamate*)
Ward, R.S. *et al.*, *J.A.C.S.*, 1969, **91**, 2727-2732, (*ms, derivs*)
McLafferty, F.W. *et al.*, *Arch. Mass Spectral Data*, 1970, **1**, 284, (*ms*)
Miyajima, G. *et al.*, *Chem. Pharm. Bull.*, 1971, **19**, 2301, (*cmr*)
Geibel, K. *et al.*, *Ber. Bunsen-Ges. Phys. Chem.*, 1972, **76**, 1246-1251, (*N*-benzylidene, *isom*)
Criswell, T.R. *et al.*, *Mol. Cryst. Liq. Cryst.*, 1973, **22**, 211, (*ethers, synth*)
Fairbrother, J.E., *Anal. Profiles Drug Subst.*, 1974, **3**; 1985, **14**, 551, (*rev*)