

Benzene, 2-nitro-1-(4-nitrophenoxy)-4-(trifluoromethyl)-

Other names:	Benzene, 2-nitro-1-(4-nitrophenoxy)-4-(trifluoromethyl)- Ether, p-nitrophenyl «alpha»,«alpha»,«alpha»-trifluoro-2-nitro-p-tolyl p-Nitrophenyl 2-nitro-4-(trifluoromethyl)phenyl ether C 6989 Ether, 2,4'-dinitro-4-trifluoromethyldiphenyl Fluordifen Fluorodiphen Preforan 2,4-Dinitro-p-trifluoromethyl phenyl ether 2,4'-Dinitro-4-(trifluoromethyl)diphenyl ether 4-Nitrophenyl 4-(trifluoromethyl)-2-nitrophenyl ether 4-Trifluoromethyl-2,4'-dinitrodiphenyl ether 4-Trifluoromethyl-2,4'-dinitrophenyl ether p-Nitrophenyl «alpha»,«alpha»,«alpha»-trifluoro-2-nitro-p-tolyl ether Soyex 2-Nitro-1-(4-nitrophenoxy)-4-(trifluoromethyl)benzene 4-Nitrophenyl «alpha»,«alpha»,«alpha»-trifluoro-2-nitro-p-tolyl ether NSC 58415
Inchi:	InChI=1S/C13H7F3N2O5/c14-13(15,16)8-1-6-12(11(7-8)18(21)22)23-10-4-2-9(3-5-10)17
InchiKey:	HHMCAJWVGYGUEF-UHFFFAOYSA-N
Formula:	C13H7F3N2O5
SMILES:	O=[N+](O)c1ccc(Oc2ccc(C(F)(F)F)cc2[N+](=O)[O-])cc1
Mol. weight [g/mol]:	328.20

Physical Properties

Property code	Value	Unit	Source
hfus	42.08	kJ/mol	Joback Method
ie	9.28	eV	Cheméo Relay (1.0)
log10ws	-5.42		Cheméo Relay (1.0)
logp	4.314		Crippen Method
mcvol	192.530	ml/mol	McGowan Method
tb	607.80	K	Cheméo Relay (1.0)
tf	361.02	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	556.34	J/mol×K	885.82	Joback Method
cpg	565.19	J/mol×K	929.19	Joback Method
cpg	573.02	J/mol×K	972.55	Joback Method
cpg	579.91	J/mol×K	1015.92	Joback Method
cpg	585.96	J/mol×K	1059.28	Joback Method
cpg	591.28	J/mol×K	1102.65	Joback Method
cpg	595.95	J/mol×K	1146.01	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?Str2File=C15457053
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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