Benzenesulfonamide, N,4-dimethyl-N-nitroso-

Other names:	p-Toluenesulfonamide, N-methyl-N-nitroso-
	p-Tolylsulfonylmethylnitrosamide
	Diazald
	Diazale
	Methylnitroso-p-toluenesulfonamide
	N-Methyl-N-nitroso-4-toluenesulfonamide
	N-Methyl-N-nitrosotoluene-4-sulfonamide
	N-Methyl-N-nitroso-p-toluenesulfonamide
	N-Nitroso-N-methyl-p-toluenesulfonamide
	p-Tolylsulfonylmethylnitrosoamide
	p-Toluenesulfonyl-N-methyl-N-nitrosamide
	p-Tolylsulfonyl-methyl-nitrosamid
	p-Tolylsulfonylmethylnitrosamine
	N-Methyl-N-nitroso-p-tolylsulfonylamide
	N-Nitroso-N-methyl-p-toluenesulfamide
	N-Nitroso-N-methyl-4-tolylsulfonamide
	Toluene-p-sulfonylmethylnitrosamide
	NSC 313
	N-methyl-N-nitrosotoluene-4-sulphonamide
Inchi:	InChI=1S/C8H10N2O3S/c1-7-3-5-8(6-4-7)14(12,13)10(2)9-11/h3-6H,1-2H3
InchiKey:	FFKZOUIEAHOBHW-UHFFFAOYSA-N
Formula:	C8H10N2O3S
SMILES:	Cc1ccc(S(=O)(=O)N(C)N=O)cc1
Mol. weight [g/mol]:	214.24
CAS:	80-11-5

Physical Properties

Property code	Value	Unit	Source
hf	-537.40	kJ/mol	Joback Method
hvap	66.11	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	1.297		Crippen Method
mcvol	149.440	ml/mol	McGowan Method
pc	4244.08	kPa	Joback Method
tb	537.72	K	Joback Method
tc	737.24	K	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C80115&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature