

Metharbital

Other names:	1-Methyl-5,5-diethyl barbituric acid 1-Methylbarbital 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5,5-diethyl-1-methyl- 5,5-Diethyl-1-methyl-2,4,6(1H,3H,5H)-pyrimidinetrione 5,5-Diethyl-1-methyl-2,4,6-trioxo-hexahydropyrimidine 5,5-Diethyl-1-methylbarbituric acid AN 23 Barbituric acid, 5,5-diethyl-1-methyl- Endiemal Endiemalum Gemonal Gemonil Gemonit Metabarbital Methabarbitone Metharbitone Metharbutal Methylbarbital N-Methylbarbital NSC 27156 Sch 412
Inchi:	InChI=1S/C9H14N2O3/c1-4-9(5-2)6(12)10-8(14)11(3)7(9)13/h4-5H2,1-3H3,(H,10,12,14)
InchiKey:	FWJKNZONDWOGMI-UHFFFAOYSA-N
Formula:	C9H14N2O3
SMILES:	CCC1(CC)C(=O)NC(=O)N(C)C1=O
Mol. weight [g/mol]:	198.22
CAS:	50-11-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.10		Aqueous Solubility Prediction Method
log10ws	-2.23		Estimated Solubility Method
logp	0.501		Crippen Method
mcvol	151.480	ml/mol	McGowan Method
rinpol	1417.00		NIST Webbook

rinpol	1417.00		NIST Webbook
rinpol	1421.00		NIST Webbook
rinpol	1417.00		NIST Webbook
rinpol	1417.00		NIST Webbook
rinpol	1472.20		NIST Webbook
rinpol	1412.00		NIST Webbook
rinpol	1425.00		NIST Webbook
rinpol	1420.00		NIST Webbook
tf	423.65	K	Aqueous Solubility Prediction Method

Sources

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C50113&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/22-808-0/Metharbital.pdf>

Generated by Cheméo on 2024-04-26 18:23:33.289882297 +0000 UTC m=+16445062.210459612.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.