

BENZTHIAZIDE

Other names:	2H-1,2,4-Benzothiadiazine-7-sulfonamide, 3-((benzylthio)methyl)-6-chloro-, 1,1-dioxide 2H-1,2,4-Benzothiadiazine-7-sulfonamide, 6-chloro-3-(((phenylmethyl)thio)methyl)-, dioxide-1,1- 2H-1,2,4-Benzothiadiazine-7-sulfonamide, 6-chloro-3-[[[(phenylmethyl)thio]methyl]-, 1,1-dioxide 3-((Benzylthio)methyl)-6-chloro-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide 3-Benzylthiomethyl-6-chloro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide 3-Benzylthiomethyl-6-chloro-7-sulfamoyl-1,2,4-benzothiadiazine 1,1-dioxide Aquatag Benzothiazide Dihydrex Diucen Diucene Edemex Exna Exosalt Fovane Freeuril HyDrine Lemazide Naclex P 1393 Pfizer 1393 Proaqua Regulon Urese
Inchi:	InChI=1S/C15H14ClN3O4S3/c16-11-6-12-14(7-13(11)25(17,20)21)26(22,23)19-15(18-12)
InchiKey:	NDTSRXAMMQDVSUW-UHFFFAOYSA-N
Formula:	C15H14ClN3O4S3
SMILES:	NS(=O)(=O)c1cc2c(cc1Cl)N=C(CSCc1cccc1)NS2(=O)=O
Mol. weight [g/mol]:	431.95

Physical Properties

Property code	Value	Unit	Source
hfus	67.85	kJ/mol	Joback Method
log10ws	-4.46		Aqueous Solubility Prediction Method
logp	2.243		Crippen Method
mcvol	274.240	ml/mol	McGowan Method

rinpol	2680.00		NIST Webbook
rinpol	2680.00		NIST Webbook
tf	504.65	K	Aqueous Solubility Prediction Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	780.07	J/mol×K	986.32	Joback Method
cpg	786.90	J/mol×K	1029.90	Joback Method
cpg	791.73	J/mol×K	1073.47	Joback Method
cpg	794.56	J/mol×K	1117.05	Joback Method
cpg	795.41	J/mol×K	1160.62	Joback Method
cpg	794.30	J/mol×K	1204.20	Joback Method
cpg	791.24	J/mol×K	1247.77	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset003.xlsx/351830174/AqueousDataset003.xlsx>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C91338&Units=SI>

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
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

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