

Benzenesulfonamide, N-cyclohexyl-4-methyl-

Other names:	p-Toluenesulfonamide, N-cyclohexyl- N-Cyclohexyl-p-toluenesulfonamide N-Cyclohexyl-4-toluenesulfonamide Santicizer 1H N-Cyclohexyl-4-methylbenzenesulfonamide 4-Toluenesulfonamide, N-cyclohexyl- N-cyclohexyltoluene-4-sulphonamide
Inchi:	InChI=1S/C13H19NO2S/c1-11-7-9-13(10-8-11)17(15,16)14-12-5-3-2-4-6-12/h7-10,12,14
InchiKey:	DKYVVNLWACXMDW-UHFFFAOYSA-N
Formula:	C13H19NO2S
SMILES:	<chem>Cc1ccc(S(=O)(=O)NC2CCCCC2)cc1</chem>
Mol. weight [g/mol]:	253.36
CAS:	80-30-8

Physical Properties

Property code	Value	Unit	Source
gf	-193.34	kJ/mol	Joback Method
hf	-432.15	kJ/mol	Joback Method
hfus	31.39	kJ/mol	Joback Method
hvap	72.97	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	2.606		Crippen Method
mcvol	197.480	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
rinpol	356.63		NIST Webbook
rinpol	356.63		NIST Webbook
tb	646.00	K	Joback Method
tc	871.45	K	Joback Method
tf	373.81	K	Joback Method
vc	0.750	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	528.85	J/mol×K	646.00	Joback Method
cpg	548.39	J/mol×K	683.58	Joback Method
cpg	566.51	J/mol×K	721.15	Joback Method
cpg	583.24	J/mol×K	758.73	Joback Method
cpg	598.61	J/mol×K	796.30	Joback Method
cpg	612.65	J/mol×K	833.88	Joback Method
cpg	625.40	J/mol×K	871.45	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C80308&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion 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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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