

P-toluenesulfonamide, n,n'-(1,4-cyclohexylene)bis[n-(2-hydroxyethyl)-, diacetate

InChI:
InchiKey:

VENNTHBQQAJMQS-UHFFFAOYSA-N

Formula:

C28H38N2O8S2

SMILES:

CC(=O)OCCN(C1CCC(N(CCOC(C)=O)S(=O)(=O)c2ccc(C)cc2)CC1)S(=O)(=O)c1ccc(C)

Mol. weight [g/mol]:

594.74

Physical Properties

Property code	Value	Unit	Source
gf	-776.18	kJ/mol	Joback Method
hf	-1398.39	kJ/mol	Joback Method
hfus	82.86	kJ/mol	Joback Method
hvap	143.59	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	3.422		Crippen Method
mcvol	438.020	ml/mol	McGowan Method
pc	1367.69	kPa	Joback Method
tb	1191.26	K	Joback Method
tc	1465.13	K	Joback Method
tf	772.72	K	Joback Method
vc	1.655	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1489.00	J/mol×K	1191.26	Joback Method
cpg	1490.92	J/mol×K	1236.91	Joback Method
cpg	1489.42	J/mol×K	1282.55	Joback Method
cpg	1484.56	J/mol×K	1328.20	Joback Method
cpg	1476.41	J/mol×K	1373.84	Joback Method
cpg	1465.05	J/mol×K	1419.49	Joback Method
cpg	1450.55	J/mol×K	1465.13	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=B6007362&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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