4-Diethylamino-N,N-diethylbenzenesulfamide

Inchi: InChI=1S/C14H24N2O2S/c1-5-15(6-2)13-9-11-14(12-10-13)19(17,18)16(7-3)8-4/h9-12H
InchiKey: UPZKCGNPMKBDQH-UHFFFAOYSA-N
Formula: C14H24N2O2S
SMILES: CCN(CC)c1ccc(S(=O)(=O)N(CC)CC)cc1
Mol. weight [g/mol]: 284.42

Physical Properties

Property code	Value	Unit	Source
gf	-77.20	kJ/mol	Joback Method
hf	-425.52	kJ/mol	Joback Method
hfus	43.09	kJ/mol	Joback Method
hvap	72.42	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.563		Crippen Method
mcvol	232.410	ml/mol	McGowan Method
pc	2278.41	kPa	Joback Method
rinpol	1489.00		NIST Webbook
tb	624.04	K	Joback Method
tc	809.74	K	Joback Method
tf	389.98	K	Joback Method
vc	0.874	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	609.26	J/mol×K	624.04	Joback Method
cpg	627.22	J/mol×K	654.99	Joback Method
cpg	644.17	J/mol×K	685.94	Joback Method
cpg	660.13	J/mol×K	716.89	Joback Method
cpg	675.13	J/mol×K	747.84	Joback Method
cpg	689.20	J/mol×K	778.79	Joback Method
cpg	702.37	J/mol×K	809.74	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U374769&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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