Benzenesulfonamide, 4-methyl-N,N-diethyl-

Inchi: InChI=1S/C11H17NO2S/c1-4-12(5-2)15(13,14)11-8-6-10(3)7-9-11/h6-9H,4-5H2,1-3H3
InchiKey: AOJBACHWNDMRQP-UHFFFAOYSA-N
Formula: C11H17NO2S
SMILES: CCN(CC)S(=O)(=O)c1ccc(C)cc1
Mol. weight [g/mol]: 227.32

Physical Properties

Property code	Value	Unit	Source
gf	-213.24	kJ/mol	Joback Method
hf	-431.13	kJ/mol	Joback Method
hfus	32.30	kJ/mol	Joback Method
hvap	63.70	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.026		Crippen Method
mcvol	180.160	ml/mol	McGowan Method
pc	3069.34	kPa	Joback Method
rinpol	1991.00		NIST Webbook
rinpol	1991.00		NIST Webbook
tb	542.96	K	Joback Method
tc	737.34	K	Joback Method
tf	323.70	K	Joback Method
vc	0.688	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.13	J/mol×K	542.96	Joback Method
cpg	434.38	J/mol×K	575.36	Joback Method
cpg	449.74	J/mol×K	607.75	Joback Method
cpg	464.23	J/mol×K	640.15	Joback Method
cpg	477.88	J/mol×K	672.55	Joback Method
cpg	490.69	J/mol×K	704.94	Joback Method
cpg	502.70	J/mol×K	737.34	Joback Method

Sources

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=U415270&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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