Benzenesulfonamide, 4-methyl-N-ethyl-N-3-methylbutyl-

Inchi: InChI=1S/C14H23NO2S/c1-5-15(11-10-12(2)3)18(16,17)14-8-6-13(4)7-9-14/h6-9,12H,5,

InchiKey: MROJKQUNFYXISA-UHFFFAOYSA-N

Formula: C14H23NO2S

SMILES: CCN(CCC(C)C)S(=O)(=O)c1ccc(C)cc1

Mol. weight [g/mol]: 269.40

Physical Properties

Property code	Value	Unit	Source
gf	-190.42	kJ/mol	Joback Method
hf	-498.33	kJ/mol	Joback Method
hfus	36.54	kJ/mol	Joback Method
hvap	69.99	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.052		Crippen Method
mcvol	222.430	ml/mol	McGowan Method
pc	2300.32	kPa	Joback Method
rinpol	2144.00		NIST Webbook
rinpol	2144.00		NIST Webbook
tb	611.16	K	Joback Method
tc	802.09	K	Joback Method
tf	342.51	K	Joback Method
vc	0.850	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	570.57	J/mol×K	611.16	Joback Method
cpg	588.67	J/mol×K	642.98	Joback Method
cpg	605.74	J/mol×K	674.80	Joback Method
cpg	621.83	J/mol×K	706.63	Joback Method
cpg	636.95	J/mol×K	738.45	Joback Method
cpg	651.13	J/mol×K	770.27	Joback Method
cpg	664.39	J/mol×K	802.09	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415274&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