Benzenesulfonamide, 4-methyl-N-ethyl-N-2-ethylhexyl-

Inchi: InChI=1S/C17H29NO2S/c1-5-8-9-16(6-2)14-18(7-3)21(19,20)17-12-10-15(4)11-13-17/h1

InchiKey: VJGZWYISHIJAIC-UHFFFAOYSA-N

Formula: C17H29NO2S

SMILES: CCCCC(CC)CN(CC)S(=O)(=O)c1ccc(C)cc1

Mol. weight [g/mol]: 311.48

Physical Properties

Property code	Value	Unit	Source
gf	-165.16	kJ/mol	Joback Method
hf	-560.25	kJ/mol	Joback Method
hfus	44.31	kJ/mol	Joback Method
hvap	76.66	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	4.222		Crippen Method
mcvol	264.700	ml/mol	McGowan Method
pc	1775.84	kPa	Joback Method
rinpol	2355.00		NIST Webbook
rinpol	2355.00		NIST Webbook
tb	679.80	K	Joback Method
tc	865.66	K	Joback Method
tf	376.32	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	735.15	J/mol×K	679.80	Joback Method
cpg	754.07	J/mol×K	710.78	Joback Method
cpg	771.91	J/mol×K	741.75	Joback Method
cpg	788.71	J/mol×K	772.73	Joback Method
cpg	804.48	J/mol×K	803.70	Joback Method
cpg	819.26	J/mol×K	834.68	Joback Method
cpg	833.08	J/mol×K	865.66	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=U415277&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