Benzenesulfonamide, 4-methyl-N-ethyl-N-hexyl-

Inchi: InChI=1S/C15H25NO2S/c1-4-6-7-8-13-16(5-2)19(17,18)15-11-9-14(3)10-12-15/h9-12H,4

InchiKey: NXVIYXWPPWKYMH-UHFFFAOYSA-N

Formula: C15H25NO2S

SMILES: CCCCCCN(CC)S(=O)(=O)c1ccc(C)cc1

Mol. weight [g/mol]: 283.43

Physical Properties

Property code	Value	Unit	Source
gf	-179.56	kJ/mol	Joback Method
hf	-513.69	kJ/mol	Joback Method
hfus	42.66	kJ/mol	Joback Method
hvap	72.60	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.586		Crippen Method
mcvol	236.520	ml/mol	McGowan Method
pc	2086.93	kPa	Joback Method
rinpol	2249.00		NIST Webbook
rinpol	2249.00		NIST Webbook
tb	634.48	K	Joback Method
tc	820.23	K	Joback Method
tf	368.78	K	Joback Method
vc	0.911	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	623.78	J/mol×K	634.48	Joback Method
cpg	641.85	J/mol×K	665.44	Joback Method
cpg	658.93	J/mol×K	696.40	Joback Method
cpg	675.04	J/mol×K	727.35	Joback Method
cpg	690.20	J/mol×K	758.31	Joback Method
cpg	704.44	J/mol×K	789.27	Joback Method
cpg	717.78	J/mol×K	820.23	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415276&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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