Benzenesulfonamide, n,n'-butylenebis[4-methyl-

Inchi: InChI=1S/C18H24N2O4S2/c1-15-5-9-17(10-6-15)25(21,22)19-13-3-4-14-20-26(23,24)18

InchiKey: VVPVPUGXHZXNRC-UHFFFAOYSA-N

Formula: C18H24N2O4S2

SMILES: Cc1ccc(S(=O)(=O)NCCCCNS(=O)(=O)c2ccc(C)cc2)cc1

Mol. weight [g/mol]: 396.52

CAS: 15544-47-5

Physical Properties

Property code	Value	Unit	Source
gf	-452.06	kJ/mol	Joback Method
hf	-764.49	kJ/mol	Joback Method
hfus	62.63	kJ/mol	Joback Method
hvap	111.68	kJ/mol	Joback Method
log10ws	-4.66		Crippen Method
logp	2.340		Crippen Method
mcvol	293.100	ml/mol	McGowan Method
pc	2555.92	kPa	Joback Method
tb	870.46	K	Joback Method
tc	1083.51	K	Joback Method
tf	552.94	K	Joback Method
vc	1.149	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.73	J/mol×K	870.46	Joback Method
cpg	888.25	J/mol×K	905.97	Joback Method
cpg	900.32	J/mol×K	941.48	Joback Method
cpg	910.94	J/mol×K	976.98	Joback Method
cpg	920.16	J/mol×K	1012.49	Joback Method
cpg	927.98	J/mol×K	1048.00	Joback Method
cpg	934.45	J/mol×K	1083.51	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=C15544475&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume