Benzenesulfonamide, N-butyl-

Other names:	Benzenesulfonic acid butyl amide
	N-Butylbenzenesulfonamide
	Plastomoll BMB
	N-(n-Butyl)benzenesulfonamide
	Dellatol BBS
	Plasthall BSA
	Uniplex 214
	BM 4 (sulfonamide)
	Cetamoll BMB
	NSC 3536
	N-butylbenzenesulphonamide
Inchi:	InChI=1S/C10H15NO2S/c1-2-3-9-11-14(12,13)10-7-5-4-6-8-10/h4-8,11H,2-3,9H2,1H3
InchiKey:	IPRJXAGUEGOFGG-UHFFFAOYSA-N
Formula:	C10H15NO2S
SMILES:	CCCCNS(=O)(=O)c1ccccc1
Mol. weight [g/mol]:	213.30
CAS:	3622-84-2

Physical Properties

Property code	Value	Unit	Source
gf	-233.42	kJ/mol	Joback Method
hf	-413.08	kJ/mol	Joback Method
hfus	32.17	kJ/mol	Joback Method
hvap	65.20	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	1.765		Crippen Method
mcvol	166.070	ml/mol	McGowan Method
pc	3547.31	kPa	Joback Method
rinpol	1794.00		NIST Webbook
rinpol	1797.00		NIST Webbook
ripol	2956.00		NIST Webbook
tb	552.83	K	Joback Method
tc	752.37	K	Joback Method
tf	320.10	K	Joback Method
vc	0.648	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	386.59	J/mol×K	552.83	Joback Method
cpg	401.71	J/mol×K	586.09	Joback Method
cpg	415.96	J/mol×K	619.34	Joback Method
cpg	429.35	J/mol×K	652.60	Joback Method
cpg	441.92	J/mol×K	685.86	Joback Method
cpg	453.66	J/mol×K	719.12	Joback Method
cpg	464.61	J/mol×K	752.37	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=C3622842&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume