BENZENESULFONANILIDE

Other names:	Benzenesulfonamide, N-phenyl-
	Benzenesulfanilide
	Benzenesulfoanilide
	Benzensulfonanilide
	Benzoylsulfanilide
	N-Phenylbenzenesulfonamide
	N-phenylbenzenesulphonamide
Inchi:	InChI=1S/C12H11NO2S/c14-16(15,12-9-5-2-6-10-12)13-11-7-3-1-4-8-11/h1-10,13H
InchiKey:	XAUGWFWQVYXATQ-UHFFFAOYSA-N
Formula:	C12H11NO2S
SMILES:	O=S(=O)(Nc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	233.29

Physical Properties

Property code	Value	Unit	Source
hf	-99.92	kJ/mol	Cheméo Relay (1.0)
hfus	31.39	kJ/mol	Joback Method
hvap	92.44	kJ/mol	Cheméo Relay (1.0)
ie	8.48	eV	Cheméo Relay (1.0)
log10ws	-3.03		Cheméo Relay (1.0)
logp	2.487		Crippen Method
mcvol	170.490	ml/mol	McGowan Method
tb	625.33	K	Cheméo Relay (1.0)
tf	396.03	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.45	J/mol×K	625.27	Joback Method
cpg	424.74	J/mol×K	664.67	Joback Method
cpg	438.74	J/mol×K	704.06	Joback Method
cpg	451.49	J/mol×K	743.46	Joback Method
cpg	463.06	J/mol×K	782.86	Joback Method
cpg	473.47	J/mol×K	822.26	Joback Method

cpg	482.79	J/mol×K	861.65	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1678257&Units=SI

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point