

O-aminobenzenesulfonamide

Other names:	2-aminobenzenesulfonamide o-aminobenzenesulphonamide
Inchi:	InChI=1S/C6H8N2O2S/c7-5-3-1-2-4-6(5)11(8,9)10/h1-4H,7H2,(H2,8,9,10)
InchiKey:	YAZSBRQTAHVVGGE-UHFFFAOYSA-N
Formula:	C6H8N2O2S
SMILES:	Nc1ccccc1S(N)(=O)=O
Mol. weight [g/mol]:	172.21
CAS:	3306-62-5

Physical Properties

Property code	Value	Unit	Source
gf	-233.22	kJ/mol	Joback Method
hf	-327.88	kJ/mol	Joback Method
hfus	23.44	kJ/mol	Enthalpies of combustion and formation of benzenesulfonamide and some of its derivatives
hvap	71.81	kJ/mol	Joback Method
log10ws	-0.80		Crippen Method
logp	-0.084		Crippen Method
mcvol	119.690	ml/mol	McGowan Method
pc	6841.44	kPa	Joback Method
tb	561.18	K	Joback Method
tc	794.22	K	Joback Method
tf	401.40	K	Joback Method
vc	0.448	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.49	J/mol×K	561.18	Joback Method
cpg	280.30	J/mol×K	600.02	Joback Method
cpg	290.34	J/mol×K	638.86	Joback Method
cpg	299.63	J/mol×K	677.70	Joback Method
cpg	308.17	J/mol×K	716.54	Joback Method

cpg	315.97	J/mol×K	755.38	Joback Method
cpg	323.03	J/mol×K	794.22	Joback Method

Sources

Enthalpies of combustion and formation of benzenesulfonamide and Joback Method derivatives:

McGowan Method:

NIST Webbook:

Crippen Method:

Crippen Method:

<https://www.doi.org/10.1016/j.jct.2011.11.026>

https://en.wikipedia.org/wiki/Joback_method

<http://link.springer.com/article/10.1007/BF02311772>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C3306625&Units=SI>

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

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

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