

2-Amino-N-ethylbenzenesulfonanilide

Other names:

Benzenesulfonamide, 2-amino-N-ethyl-N-phenyl-
Benzenesulfonanilide, 2-amino-N-ethyl-
N-Ethyl-N-phenyl-o-aminobenzenesulfonamide
2-Amino-N-ethyl-N-phenylbenzenesulfonamide
2-amino-N-ethylbenzenesulphonanilide

Inchi: InChI=1S/C14H16N2O2S/c1-2-16(12-8-4-3-5-9-12)19(17,18)14-11-7-6-10-13(14)15/h3-1**InchiKey:** OXZNTECZWGFYMM-UHFFFAOYSA-N**Formula:** C14H16N2O2S**SMILES:** CCN(c1ccccc1)S(=O)(=O)c1ccccc1N**Mol. weight [g/mol]:** 276.35**CAS:** 81-10-7

Physical Properties

Property code	Value	Unit	Source
gf	-9.12	kJ/mol	Joback Method
hf	-222.73	kJ/mol	Joback Method
hfus	39.30	kJ/mol	Joback Method
hvap	83.29	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.484		Crippen Method
mcvol	208.650	ml/mol	McGowan Method
pc	3439.94	kPa	Joback Method
tb	710.81	K	Joback Method
tc	943.03	K	Joback Method
tf	467.19	K	Joback Method
vc	0.776	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.03	J/molxK	710.81	Joback Method
cpg	574.51	J/molxK	749.51	Joback Method
cpg	588.65	J/molxK	788.22	Joback Method
cpg	601.49	J/molxK	826.92	Joback Method

cpg	613.11	J/mol×K	865.62	Joback Method
cpg	623.56	J/mol×K	904.32	Joback Method
cpg	632.90	J/mol×K	943.03	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C81107&Units=SI

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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