

5-Acenaphthenamine, 4-nitro-

Inchi:	InChI=1S/C12H10N2O2/c13-12-9-3-1-2-7-4-5-8(11(7)9)6-10(12)14(15)16/h1-3,6H,4-5,13
InchiKey:	VWJYDQVCIUABSV-UHFFFAOYSA-N
Formula:	C12H10N2O2
SMILES:	<chem>Nc1c([N+](=O)[O-])cc2c3c(cccc13)CC2</chem>
Mol. weight [g/mol]:	214.22
CAS:	4657-95-8

Physical Properties

Property code	Value	Unit	Source
gf	413.26	kJ/mol	Joback Method
hf	213.04	kJ/mol	Joback Method
hfus	32.06	kJ/mol	Joback Method
hvap	76.15	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	2.429		Crippen Method
mcvol	153.260	ml/mol	McGowan Method
pc	3686.49	kPa	Joback Method
tb	771.05	K	Joback Method
tc	1041.00	K	Joback Method
tf	586.77	K	Joback Method
vc	0.599	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	419.61	J/molxK	771.05	Joback Method
cpg	430.65	J/molxK	816.04	Joback Method
cpg	440.99	J/molxK	861.03	Joback Method
cpg	450.82	J/molxK	906.02	Joback Method
cpg	460.30	J/molxK	951.01	Joback Method
cpg	469.62	J/molxK	996.00	Joback Method
cpg	478.96	J/molxK	1041.00	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C4657958&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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/118-793-1/5-Acenaphthenamine-4-nitro.pdf>

Generated by Cheméo on 2024-04-27 17:46:40.688136688 +0000 UTC m=+16529249.608714023.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.