N-(4-Hydroxyphenyl)-2-naphthylamine

Other names:	Phenol, 4-(2-naphthalenylamino)-
	p-(«beta»-Naphthylamino)phenol
	p-(2-Naphthylamino)phenol
	p-Hydroxyneozon
	p-Hydroxyneozone
	p-Hydroxyphenyl-«beta»-naphthylamine
	p-Hydroxyphenyl-2-naphthylamine
	p-Oxinozon
	p-Oxyneozone
	N-(p-Hydroxyphenyl)-«beta»-naphthylamine
	N-(p-Hydroxyphenyl)-2-naphthylamine
	Phenol, p-(2-naphthylamino)-
	4-Hydroxyphenyl-«beta»-naphthylamine
	4-(2-Naftylamino)fenol
	4-(2-Naphthylamino)phenol
	Phenol, 4-(2-naphthylamino)-
	NSC 15372
Inchi:	InChI=1S/C16H13NO/c18-16-9-7-14(8-10-16)17-15-6-5-12-3-1-2-4-13(12)11-15/h1-11,17
InchiKey:	RACMGQBQYYWANW-UHFFFAOYSA-N
Formula:	C16H13NO
SMILES:	Oc1ccc(Nc2ccc3ccccc3c2)cc1
Mol. weight [g/mol]:	235.28
CAS:	93-45-8

Physical Properties

Property code	Value	Unit	Source
gf	340.45	kJ/mol	Joback Method
hf	155.25	kJ/mol	Joback Method
hfus	32.79	kJ/mol	Joback Method
hvap	77.51	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.289		Crippen Method
mcvol	185.170	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
tb	773.59	K	Joback Method
tc	1037.88	K	Joback Method
tf	532.52	K	Joback Method

vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	510.52	J/mol×K	773.59	Joback Method
cpg	524.08	J/mol×K	817.64	Joback Method
cpg	536.75	J/mol×K	861.69	Joback Method
cpg	548.75	J/mol×K	905.73	Joback Method
cpg	560.31	J/mol×K	949.78	Joback Method
cpg	571.64	J/mol×K	993.83	Joback Method
cpg	582.96	J/mol×K	1037.88	Joback Method
hsubt	126.80	kJ/mol	390.50	NIST Webbook

Sources

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=C93458&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hsubt: Enthalpy of sublimation at a given temperature
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