Salicylamide, n-(2-naphthyl)

Inchi: InChI=1S/C17H13NO2/c19-16-8-4-3-7-15(16)17(20)18-14-10-9-12-5-1-2-6-13(12)11-14/h
InchiKey: KFLNUTIUYWTQNV-UHFFFAOYSA-N
Formula: C17H13NO2
SMILES: O=C(Nc1ccc2ccccc2c1)c1ccccc1O
Mol. weight [g/mol]: 263.29
CAS: 5395-85-7

Physical Properties

Property code	Value	Unit	Source
gf	219.95	kJ/mol	Joback Method
hf	22.03	kJ/mol	Joback Method
hfus	36.98	kJ/mol	Joback Method
hvap	86.49	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	3.798		Crippen Method
mcvol	200.830	ml/mol	McGowan Method
pc	3329.68	kPa	Joback Method
tb	850.34	K	Joback Method
tc	1112.68	K	Joback Method
tf	593.72	K	Joback Method
vc	0.701	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	572.93	J/mol×K	850.34	Joback Method
cpg	585.49	J/mol×K	894.06	Joback Method
cpg	597.44	J/mol×K	937.79	Joback Method
cpg	609.00	J/mol×K	981.51	Joback Method
cpg	620.40	J/mol×K	1025.23	Joback Method
cpg	631.84	J/mol×K	1068.96	Joback Method
cpg	643.54	J/mol×K	1112.68	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5395857&Units=SI
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

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