Benzamide, N-(1-naphthyl)-3-fluoro-

Inchi: InChI=1S/C17H12FNO/c18-14-8-3-7-13(11-14)17(20)19-16-10-4-6-12-5-1-2-9-15(12)16/h
InchiKey: BZSXIVIFGVRLJR-UHFFFAOYSA-N
Formula: C17H12FNO
SMILES: O=C(Nc1cccc2ccccc12)c1cccc(F)c1
Mol. weight [g/mol]: 265.28

Physical Properties

Property code	Value	Unit	Source
gf	170.13	kJ/mol	Joback Method
hf	-8.24	kJ/mol	Joback Method
hfus	33.89	kJ/mol	Joback Method
hvap	73.32	kJ/mol	Joback Method
log10ws	-5.58		Crippen Method
logp	4.231		Crippen Method
mcvol	196.730	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
rinpol	2424.00		NIST Webbook
tb	773.97	K	Joback Method
tc	1020.87	K	Joback Method
tf	495.11	K	Joback Method
vc	0.752	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	534.87	J/mol×K	773.97	Joback Method
cpg	548.08	J/mol×K	815.12	Joback Method
cpg	560.17	J/mol×K	856.27	Joback Method
cpg	571.28	J/mol×K	897.42	Joback Method
cpg	581.52	J/mol×K	938.57	Joback Method
cpg	591.01	J/mol×K	979.72	Joback Method
cpg	599.86	J/mol×K	1020.87	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=U307171&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume