1-Naphthamide, N-ethyl-N-(3-methylphenyl)-

Inchi: InChI=1S/C20H19NO/c1-3-21(17-11-6-8-15(2)14-17)20(22)19-13-7-10-16-9-4-5-12-18(1
InchiKey: AEUPVIANXUMKEL-UHFFFAOYSA-N
Formula: C20H19NO
SMILES: CCN(C(=O)c1cccc2ccccc12)c1cccc(C)c1
Mol. weight [g/mol]: 289.37

Physical Properties

Property code	Value	Unit	Source
gf	411.59	kJ/mol	Joback Method
hf	140.01	kJ/mol	Joback Method
hfus	36.50	kJ/mol	Joback Method
hvap	76.42	kJ/mol	Joback Method
log10ws	-6.05		Crippen Method
logp	4.815		Crippen Method
mcvol	237.230	ml/mol	McGowan Method
pc	2066.12	kPa	Joback Method
rinpol	2256.00		NIST Webbook
rinpol	2256.00		NIST Webbook
tb	805.61	K	Joback Method
tc	1047.70	K	Joback Method
tf	508.14	K	Joback Method
vc	0.885	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.37	J/mol×K	805.61	Joback Method
cpg	694.09	J/mol×K	845.96	Joback Method
cpg	708.62	J/mol×K	886.31	Joback Method
cpg	722.09	J/mol×K	926.65	Joback Method
cpg	734.62	J/mol×K	967.00	Joback Method
cpg	746.37	J/mol×K	1007.35	Joback Method
cpg	757.45	J/mol×K	1047.70	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=U308687&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