Napropamide

Other names:	Propanamide, N,N-diethyl-2-(1-naphthalenyloxy)-
	Propionamide, N,N-diethyl-2-(1-naphthyloxy)-
	Devrinol
	Napropamid
	R 7465
	Napromide
	2-(«alpha»-Naphthoxy)-N,N-Diethylpropionamide
	N,N-Diethyl-2-(1-naphthalenyloxy)propionamide
	Racemic devrinol
	N,N-diethyl-2-(1-naphthyloxy)propionamide
Inchi:	InChI=1S/C17H21NO2/c1-4-18(5-2)17(19)13(3)20-16-12-8-10-14-9-6-7-11-15(14)16/h6-1
InchiKey:	WXZVAROIGSFCFJ-UHFFFAOYSA-N
Formula:	C17H21NO2
SMILES:	CCN(CC)C(=O)C(C)Oc1cccc2ccccc12
Mol. weight [g/mol]:	271.35
CAS:	15299-99-7

Physical Properties

Property code	Value	Unit	Source
gf	176.11	kJ/mol	Joback Method
hf	-160.63	kJ/mol	Joback Method
hfus	32.74	kJ/mol	Joback Method
hvap	68.83	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	3.476		Crippen Method
mcvol	224.590	ml/mol	McGowan Method
pc	1998.33	kPa	Joback Method
rinpol	2165.00		NIST Webbook
rinpol	2148.00		NIST Webbook
rinpol	2119.00		NIST Webbook
rinpol	2148.00		NIST Webbook
rinpol	2119.00		NIST Webbook
rinpol	2165.00		NIST Webbook
rinpol	2148.00		NIST Webbook
rinpol	2160.00		NIST Webbook
tb	727.29	K	Joback Method
tc	943.29	K	Joback Method

tf	346.97 ± 0.20	K	NIST Webbook
vc	0.838	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.97	J/mol×K	727.29	Joback Method
cpg	647.26	J/mol×K	763.29	Joback Method
cpg	662.44	J/mol×K	799.29	Joback Method
cpg	676.60	J/mol×K	835.29	Joback Method
cpg	689.79	J/mol×K	871.29	Joback Method
cpg	702.09	J/mol×K	907.29	Joback Method
cpg	713.56	J/mol×K	943.29	Joback Method
hfust	24.57	kJ/mol	345.30	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C15299997&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
hfust: Enthalpy of fusion 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

rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume