

1-Naphthamide, N-decyl-N-methyl-

Inchi:	InChI=1S/C22H31NO/c1-3-4-5-6-7-8-9-12-18-23(2)22(24)21-17-13-15-19-14-10-11-16-2
InchiKey:	KPZHKKSUMOZLNT-UHFFFAOYSA-N
Formula:	C22H31NO
SMILES:	CCCCCCCCCN(C)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]:	325.49

Physical Properties

Property code	Value	Unit	Source
gf	325.65	kJ/mol	Joback Method
hf	-126.33	kJ/mol	Joback Method
hfus	48.03	kJ/mol	Joback Method
hvap	77.93	kJ/mol	Joback Method
log10ws	-7.19		Crippen Method
logp	6.052		Crippen Method
mcvol	289.170	ml/mol	McGowan Method
pc	1363.65	kPa	Joback Method
rinsol	2622.00		NIST Webbook
tb	819.71	K	Joback Method
tc	1024.43	K	Joback Method
tf	491.74	K	Joback Method
vc	1.105	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	886.58	J/molxK	819.71	Joback Method
cpg	904.20	J/molxK	853.83	Joback Method
cpg	920.78	J/molxK	887.95	Joback Method
cpg	936.41	J/molxK	922.07	Joback Method
cpg	951.19	J/molxK	956.19	Joback Method
cpg	965.18	J/molxK	990.31	Joback Method
cpg	978.49	J/molxK	1024.43	Joback Method

Sources

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=U308689&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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

Latest version available from:

<https://www.chemeo.com/cid/84-428-4/1-Naphthamide-N-decyl-N-methyl.pdf>

Generated by Cheméo on 2024-04-27 15:33:04.907619231 +0000 UTC m=+16521233.828196542.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.