

Sarcosine, N-(1-naphthoyl)-, undecyl ester

Inchi:	InChI=1S/C25H35NO3/c1-3-4-5-6-7-8-9-10-13-19-29-24(27)20-26(2)25(28)23-18-14-16-
InchiKey:	BVZGFAOHYYTABU-UHFFFAOYSA-N
Formula:	C25H35NO3
SMILES:	CCCCCCCCCOC(=O)CN(C)C(=O)c1cccc2ccccc12
Mol. weight [g/mol]:	397.55

Physical Properties

Property code	Value	Unit	Source
gf	116.99	kJ/mol	Joback Method
hf	-433.05	kJ/mol	Joback Method
hfus	58.58	kJ/mol	Joback Method
hvap	93.77	kJ/mol	Joback Method
log10ws	-7.31		Crippen Method
logp	5.986		Crippen Method
mcvol	338.880	ml/mol	McGowan Method
pc	1149.10	kPa	Joback Method
tb	964.64	K	Joback Method
tc	1182.91	K	Joback Method
tf	597.71	K	Joback Method
vc	1.298	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1115.37	J/molxK	964.64	Joback Method
cpg	1131.76	J/molxK	1001.02	Joback Method
cpg	1147.10	J/molxK	1037.40	Joback Method
cpg	1161.46	J/molxK	1073.77	Joback Method
cpg	1174.94	J/molxK	1110.15	Joback Method
cpg	1187.65	J/molxK	1146.53	Joback Method
cpg	1199.68	J/molxK	1182.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321409&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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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