

1-Naphthaleneacetic acid, dodec-2-en-1-yl ester

Inchi: InChI=1S/C24H32O2/c1-2-3-4-5-6-7-8-9-10-13-19-26-24(25)20-22-17-14-16-21-15-11-12
InchiKey: VDOWMGZFPJFJLK-JLHYYAGUSA-N
Formula: C24H32O2
SMILES: CCCCCCCCCC=CCOC(=O)Cc1cccc2ccccc12
Mol. weight [g/mol]: 352.51

Physical Properties

Property code	Value	Unit	Source
gf	206.93	kJ/mol	Joback Method
hf	-250.14	kJ/mol	Joback Method
hfus	51.58	kJ/mol	Joback Method
hvap	82.71	kJ/mol	Joback Method
log10ws	-7.82		Crippen Method
logp	6.622		Crippen Method
mcvol	308.940	ml/mol	McGowan Method
pc	1219.99	kPa	Joback Method
rinpol	1522.00		NIST Webbook
rinpol	1522.00		NIST Webbook
tb	879.61	K	Joback Method
tc	1089.83	K	Joback Method
tf	498.96	K	Joback Method
vc	1.198	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	966.83	J/mol×K	879.61	Joback Method
cpg	984.07	J/mol×K	914.65	Joback Method
cpg	1000.32	J/mol×K	949.68	Joback Method
cpg	1015.67	J/mol×K	984.72	Joback Method
cpg	1030.20	J/mol×K	1019.76	Joback Method
cpg	1043.99	J/mol×K	1054.80	Joback Method
cpg	1057.15	J/mol×K	1089.83	Joback Method
dvisc	0.0007214	Pa×s	498.96	Joback Method

dvisc	0.0004008	Pa×s	562.40	Joback Method
dvisc	0.0002509	Pa×s	625.84	Joback Method
dvisc	0.0001712	Pa×s	689.28	Joback Method
dvisc	0.0001246	Pa×s	752.73	Joback Method
dvisc	0.0000952	Pa×s	816.17	Joback Method
dvisc	0.0000757	Pa×s	879.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415055&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
dvisc:	Dynamic viscosity
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

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