

1-Naphthaleneacetic acid, hept-2-yl ester

Inchi:	InChI=1S/C19H24O2/c1-3-4-5-9-15(2)21-19(20)14-17-12-8-11-16-10-6-7-13-18(16)17/h6
InchiKey:	WHRWQXSIZHRSRB-UHFFFAOYSA-N
Formula:	C19H24O2
SMILES:	CCCCC(C)OC(=O)Cc1cccc2ccccc12
Mol. weight [g/mol]:	284.39

Physical Properties

Property code	Value	Unit	Source
gf	82.17	kJ/mol	Joback Method
hf	-269.44	kJ/mol	Joback Method
hfus	34.90	kJ/mol	Joback Method
hvap	71.23	kJ/mol	Joback Method
log10ws	-5.98		Crippen Method
logp	4.894		Crippen Method
mcvol	242.790	ml/mol	McGowan Method
pc	1697.70	kPa	Joback Method
rinqol	2740.00		NIST Webbook
tb	760.61	K	Joback Method
tc	973.46	K	Joback Method
tf	432.69	K	Joback Method
vc	0.931	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	701.43	J/molxK	760.61	Joback Method
cpg	718.16	J/molxK	796.08	Joback Method
cpg	733.81	J/molxK	831.56	Joback Method
cpg	748.44	J/molxK	867.03	Joback Method
cpg	762.11	J/molxK	902.51	Joback Method
cpg	774.89	J/molxK	937.98	Joback Method
cpg	786.83	J/molxK	973.46	Joback Method
dvisc	0.0012942	Paxs	432.69	Joback Method
dvisc	0.0007336	Paxs	487.34	Joback Method

dvisc	0.0004663	Paxs	542.00	Joback Method
dvisc	0.0003220	Paxs	596.65	Joback Method
dvisc	0.0002367	Paxs	651.30	Joback Method
dvisc	0.0001824	Paxs	705.96	Joback Method
dvisc	0.0001460	Paxs	760.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415047&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

Latest version available from:

<https://www.chemeo.com/cid/89-500-8/1-Naphthaleneacetic-acid-hept-2-yl-ester.pdf>

Generated by Cheméo on 2024-05-17 03:12:20.235904324 +0000 UTC m=+18204789.156481635.

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