

9H-Fluorene-9-carboxylic acid, hexadecyl ester

Inchi:	InChI=1S/C30H42O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-19-24-32-30(31)29-27-22-17-15
InchiKey:	YQRZBRMWYAFGSW-UHFFFAOYSA-N
Formula:	C30H42O2
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	434.65

Physical Properties

Property code	Value	Unit	Source
gf	258.31	kJ/mol	Joback Method
hf	-372.09	kJ/mol	Joback Method
hfus	65.88	kJ/mol	Joback Method
hvap	96.98	kJ/mol	Joback Method
log10ws	-10.36		Crippen Method
logp	8.823		Crippen Method
mvol	382.620	ml/mol	McGowan Method
pc	896.41	kPa	Joback Method
rinpol	2414.00		NIST Webbook
rinpol	2414.00		NIST Webbook
tb	1023.61	K	Joback Method
tc	1253.22	K	Joback Method
tf	602.88	K	Joback Method
vc	1.496	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1320.23	J/molxK	1023.61	Joback Method
cpg	1410.59	J/molxK	1214.95	Joback Method
cpg	1393.75	J/molxK	1176.69	Joback Method
cpg	1376.44	J/molxK	1138.42	Joback Method
cpg	1358.51	J/molxK	1100.15	Joback Method
cpg	1339.83	J/molxK	1061.88	Joback Method
cpg	1427.12	J/molxK	1253.22	Joback Method
dvisc	0.0001481	Paxs	1023.61	Joback Method

dvisc	0.0001776	Paxs	953.49	Joback Method
dvisc	0.0002192	Paxs	883.37	Joback Method
dvisc	0.0002804	Paxs	813.25	Joback Method
dvisc	0.0003759	Paxs	743.12	Joback Method
dvisc	0.0005356	Paxs	673.00	Joback Method
dvisc	0.0008286	Paxs	602.88	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415136&Units=SI

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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