

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

Inchi:	InChI=1S/C31H44O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-20-25-33-31(32)30-28-23-18
InchiKey:	LHNPJBDVFFQGID-UHFFFAOYSA-N
Formula:	C31H44O2
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	448.68

Physical Properties

Property code	Value	Unit	Source
gf	266.73	kJ/mol	Joback Method
hf	-392.73	kJ/mol	Joback Method
hfus	68.47	kJ/mol	Joback Method
hvap	99.20	kJ/mol	Joback Method
log10ws	-10.78		Crippen Method
logp	9.213		Crippen Method
mvol	396.710	ml/mol	McGowan Method
pc	847.02	kPa	Joback Method
rinpol	2456.00		NIST Webbook
rinpol	2456.00		NIST Webbook
tb	1046.49	K	Joback Method
tc	1282.09	K	Joback Method
tf	614.15	K	Joback Method
vc	1.552	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.64	J/molxK	1046.49	Joback Method
cpg	1404.92	J/molxK	1085.76	Joback Method
cpg	1424.30	J/molxK	1125.02	Joback Method
cpg	1442.93	J/molxK	1164.29	Joback Method
cpg	1460.99	J/molxK	1203.55	Joback Method
cpg	1478.63	J/molxK	1242.82	Joback Method
cpg	1496.01	J/molxK	1282.09	Joback Method
dvisc	0.0007567	Paxs	614.15	Joback Method

dvisc	0.0004835	Paxs	686.21	Joback Method
dvisc	0.0003364	Paxs	758.26	Joback Method
dvisc	0.0002493	Paxs	830.32	Joback Method
dvisc	0.0001938	Paxs	902.38	Joback Method
dvisc	0.0001563	Paxs	974.43	Joback Method
dvisc	0.0001299	Paxs	1046.49	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=U415137&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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