

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

Inchi:	InChI=1S/C29H40O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-18-23-31-29(30)28-26-21-16-14-19
InchiKey:	WTTDBZYCYBRLW-UHFFFAOYSA-N
Formula:	C29H40O2
SMILES:	CCCCCCCCCCCCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	420.63

Physical Properties

Property code	Value	Unit	Source
gf	249.89	kJ/mol	Joback Method
hf	-351.45	kJ/mol	Joback Method
hfus	63.29	kJ/mol	Joback Method
hvap	94.75	kJ/mol	Joback Method
log10ws	-9.94		Crippen Method
logp	8.433		Crippen Method
mvol	368.530	ml/mol	McGowan Method
pc	950.25	kPa	Joback Method
rinpol	2318.00		NIST Webbook
rinpol	2318.00		NIST Webbook
tb	1000.73	K	Joback Method
tc	1225.47	K	Joback Method
tf	591.61	K	Joback Method
vc	1.440	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1256.41	J/molxK	1000.73	Joback Method
cpg	1275.41	J/molxK	1038.19	Joback Method
cpg	1293.50	J/molxK	1075.64	Joback Method
cpg	1310.81	J/molxK	1113.10	Joback Method
cpg	1327.48	J/molxK	1150.56	Joback Method
cpg	1343.65	J/molxK	1188.01	Joback Method
cpg	1359.44	J/molxK	1225.47	Joback Method
dvisc	0.0009038	Paxs	591.61	Joback Method

dvisc	0.0005911	Paxs	659.80	Joback Method
dvisc	0.0004185	Paxs	727.98	Joback Method
dvisc	0.0003144	Paxs	796.17	Joback Method
dvisc	0.0002471	Paxs	864.36	Joback Method
dvisc	0.0002012	Paxs	932.54	Joback Method
dvisc	0.0001684	Paxs	1000.73	Joback Method

Sources

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=U415135&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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