

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

Inchi:	InChI=1S/C28H38O2/c1-2-3-4-5-6-7-8-9-10-11-12-17-22-30-28(29)27-25-20-15-13-18-23
InchiKey:	AOSHNOANJCAAEP-UHFFFAOYSA-N
Formula:	C28H38O2
SMILES:	CCCCCCCCCCCCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	406.60

Physical Properties

Property code	Value	Unit	Source
gf	241.47	kJ/mol	Joback Method
hf	-330.81	kJ/mol	Joback Method
hfus	60.70	kJ/mol	Joback Method
hvap	92.52	kJ/mol	Joback Method
log10ws	-9.53		Crippen Method
logp	8.043		Crippen Method
mvol	354.440	ml/mol	McGowan Method
pc	1009.09	kPa	Joback Method
rinpol	2268.00		NIST Webbook
rinpol	2268.00		NIST Webbook
tb	977.85	K	Joback Method
tc	1198.75	K	Joback Method
tf	580.34	K	Joback Method
vc	1.385	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1193.21	J/molxK	977.85	Joback Method
cpg	1211.69	J/molxK	1014.67	Joback Method
cpg	1229.26	J/molxK	1051.48	Joback Method
cpg	1246.04	J/molxK	1088.30	Joback Method
cpg	1262.16	J/molxK	1125.12	Joback Method
cpg	1277.74	J/molxK	1161.93	Joback Method
cpg	1292.91	J/molxK	1198.75	Joback Method
dvisc	0.0009816	Paxs	580.34	Joback Method

dvisc	0.0006498	Paxs	646.59	Joback Method
dvisc	0.0004644	Paxs	712.84	Joback Method
dvisc	0.0003514	Paxs	779.10	Joback Method
dvisc	0.0002778	Paxs	845.35	Joback Method
dvisc	0.0002272	Paxs	911.60	Joback Method
dvisc	0.0001910	Paxs	977.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415134&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

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