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

Inchi: InChI=1S/C26H34O2/c1-2-3-4-5-6-7-8-9-10-15-20-28-26(27)25-23-18-13-11-16-21(23)22
InchiKey: ZUMZCCBPOXCIOU-UHFFFAOYSA-N
Formula: C26H34O2
SMILES: CCCCCCCCCCCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]: 378.55

Physical Properties

Property code	Value	Unit	Source
gf	224.63	kJ/mol	Joback Method
hf	-289.53	kJ/mol	Joback Method
hfus	55.52	kJ/mol	Joback Method
hvap	88.07	kJ/mol	Joback Method
log10ws	-8.69		Crippen Method
logp	7.263		Crippen Method
mcvol	326.260	ml/mol	McGowan Method
pc	1144.44	kPa	Joback Method
rinpol	3530.00		NIST Webbook
rinpol	3530.00		NIST Webbook
tb	932.09	K	Joback Method
tc	1148.17	K	Joback Method
tf	557.80	K	Joback Method
vc	1.272	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1068.74	J/mol×K	932.09	Joback Method
cpg	1148.90	J/mol×K	1112.15	Joback Method
cpg	1134.27	J/mol×K	1076.14	Joback Method
cpg	1119.05	J/mol×K	1040.13	Joback Method
cpg	1103.13	J/mol×K	1004.12	Joback Method
cpg	1086.40	J/mol×K	968.10	Joback Method
cpg	1163.04	J/mol×K	1148.17	Joback Method
dvisc	0.0002432	Pa×s	932.09	Joback Method

dvisc	0.0002870	Pa×s	869.71	Joback Method
dvisc	0.0003473	Pa×s	807.33	Joback Method
dvisc	0.0004340	Pa×s	744.94	Joback Method
dvisc	0.0005650	Pa×s	682.56	Joback Method
dvisc	0.0007754	Pa×s	620.18	Joback Method
dvisc	0.0011423	Pa×s	557.80	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=U415132&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