

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

Inchi:	InChI=1S/C24H30O2/c1-2-3-4-5-6-7-8-13-18-26-24(25)23-21-16-11-9-14-19(21)20-15-10
InchiKey:	AZFICKAQMCIMCF-UHFFFAOYSA-N
Formula:	C24H30O2
SMILES:	CCCCCCCCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	350.49

Physical Properties

Property code	Value	Unit	Source
gf	207.79	kJ/mol	Joback Method
hf	-248.25	kJ/mol	Joback Method
hfus	50.34	kJ/mol	Joback Method
hvap	83.62	kJ/mol	Joback Method
log10ws	-7.85		Crippen Method
logp	6.483		Crippen Method
mvol	298.080	ml/mol	McGowan Method
pc	1308.95	kPa	Joback Method
rinpol	3322.00		NIST Webbook
rinpol	3322.00		NIST Webbook
tb	886.33	K	Joback Method
tc	1100.98	K	Joback Method
tf	535.26	K	Joback Method
vc	1.161	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	947.11	J/molxK	886.33	Joback Method
cpg	1023.83	J/molxK	1065.21	Joback Method
cpg	1009.96	J/molxK	1029.43	Joback Method
cpg	995.46	J/molxK	993.66	Joback Method
cpg	980.21	J/molxK	957.88	Joback Method
cpg	964.13	J/molxK	922.11	Joback Method
cpg	1037.17	J/molxK	1100.98	Joback Method
dvisc	0.0003054	Paxs	886.33	Joback Method

dvisc	0.0003571	Paxs	827.82	Joback Method
dvisc	0.0004275	Paxs	769.31	Joback Method
dvisc	0.0005273	Paxs	710.79	Joback Method
dvisc	0.0006753	Paxs	652.28	Joback Method
dvisc	0.0009081	Paxs	593.77	Joback Method
dvisc	0.0013027	Paxs	535.26	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415130&Units=SI
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

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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