

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

Inchi:	InChI=1S/C25H32O2/c1-2-3-4-5-6-7-8-9-14-19-27-25(26)24-22-17-12-10-15-20(22)21-16
InchiKey:	WOGJYCQTWHOLLZ-UHFFFAOYSA-N
Formula:	C25H32O2
SMILES:	CCCCCCCCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	364.52

Physical Properties

Property code	Value	Unit	Source
gf	216.21	kJ/mol	Joback Method
hf	-268.89	kJ/mol	Joback Method
hfus	52.93	kJ/mol	Joback Method
hvap	85.84	kJ/mol	Joback Method
log10ws	-8.27		Crippen Method
logp	6.873		Crippen Method
mvol	312.170	ml/mol	McGowan Method
pc	1222.55	kPa	Joback Method
rinpol	3428.00		NIST Webbook
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tb	909.21	K	Joback Method
tc	1124.18	K	Joback Method
tf	546.53	K	Joback Method
vc	1.216	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1007.55	J/molxK	909.21	Joback Method
cpg	1085.90	J/molxK	1088.35	Joback Method
cpg	1071.67	J/molxK	1052.52	Joback Method
cpg	1056.83	J/molxK	1016.69	Joback Method
cpg	1041.26	J/molxK	980.87	Joback Method
cpg	1024.87	J/molxK	945.04	Joback Method
cpg	1099.62	J/molxK	1124.18	Joback Method
dvisc	0.0002731	Paxs	909.21	Joback Method

dvisc	0.0003207	Paxs	848.76	Joback Method
dvisc	0.0003862	Paxs	788.32	Joback Method
dvisc	0.0004795	Paxs	727.87	Joback Method
dvisc	0.0006191	Paxs	667.42	Joback Method
dvisc	0.0008412	Paxs	606.98	Joback Method
dvisc	0.0012232	Paxs	546.53	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415131&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

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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