9H-Fluorene-9-carboxylic acid, 9-hydroxy-, methyl ester

Other names: Fluorene-9-carboxylic acid, 9-hydroxy-, methyl ester
Methyl 9-hydroxyfluorene-9-carboxylate
Flurenol methyl ester

Inchi: InChI=1S/C15H12O3/c1-18-14(16)15(17)12-8-4-2-6-10(12)11-7-3-5-9-13(11)15/h2-9,17H

InchiKey: AJKQZRAAQMBNKM-UHFFFAOYSA-N

Formula: C15H12O3

SMILES: COC(=O)C1(O)c2ccccc2-c2ccccc21

Mol. weight [g/mol]: 240.25

CAS: 1216-44-0

Physical Properties

Property code	Value	Unit	Source
gf	-10.30	kJ/mol	Joback Method
hf	-199.48	kJ/mol	Joback Method
hfus	24.82	kJ/mol	Joback Method
hvap	79.11	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	2.076		Crippen Method
mcvol	177.140	ml/mol	McGowan Method
pc	3217.33	kPa	Joback Method
tb	772.83	K	Joback Method
tc	1001.53	K	Joback Method
tf	518.55	K	Joback Method
vc	0.673	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	489.10	J/mol×K	772.83	Joback Method
cpg	500.88	J/mol×K	810.95	Joback Method
cpg	512.45	J/mol×K	849.06	Joback Method
cpg	523.98	J/mol×K	887.18	Joback Method
cpg	535.67	J/mol×K	925.30	Joback Method
cpg	547.70	J/mol×K	963.41	Joback Method

cpg	560.28	J/mol×K	1001.53	Joback Method

Sources

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=C1216440&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume