9-Methoxyfluorene

Inchi: InChI=1S/C14H12O/c1-15-14-12-8-4-2-6-10(12)11-7-3-5-9-13(11)14/h2-9,14H,1H3
InchiKey: JGLHXBNHKQAROV-UHFFFAOYSA-N
Formula: C14H12O
SMILES: COC1c2ccccc2-c2ccccc21
Mol. weight [g/mol]: 196.24
CAS: 19126-15-9

Physical Properties

Property code	Value	Unit	Source
gf	252.51	kJ/mol	Joback Method
hf	70.73	kJ/mol	Joback Method
hfus	22.84	kJ/mol	Joback Method
hvap	54.61	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.403		Crippen Method
mcvol	155.610	ml/mol	McGowan Method
pc	2868.87	kPa	Joback Method
tb	603.66	K	Joback Method
tc	842.43	K	Joback Method
tf	372.63	K	Joback Method
vc	0.595	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.11	J/mol×K	603.66	Joback Method
cpg	446.29	J/mol×K	802.63	Joback Method
cpg	434.97	J/mol×K	762.84	Joback Method
cpg	422.79	J/mol×K	723.04	Joback Method
cpg	409.65	J/mol×K	683.25	Joback Method
cpg	395.46	J/mol×K	643.45	Joback Method
cpg	456.86	J/mol×K	842.43	Joback Method
dvisc	0.0005728	Pa×s	603.66	Joback Method
dvisc	0.0006250	Pa×s	565.16	Joback Method

dvisc	0.0006907	Pa×s	526.65	Joback Method
dvisc	0.0007754	Pa×s	488.15	Joback Method
dvisc	0.0008880	Pa×s	449.64	Joback Method
dvisc	0.0010430	Pa×s	411.13	Joback Method
dvisc	0.0012665	Pa×s	372.63	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=C19126159&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume