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

Inchi: InChI=1S/C17H16O2/c1-2-11-19-17(18)16-14-9-5-3-7-12(14)13-8-4-6-10-15(13)16/h3-10
InchiKey: TUGHJDFLHJHVQP-UHFFFAOYSA-N
Formula: C17H16O2
SMILES: CCCOC(=O)C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]: 252.31

Physical Properties

Property code	Value	Unit	Source
gf	148.85	kJ/mol	Joback Method
hf	-103.77	kJ/mol	Joback Method
hfus	32.21	kJ/mol	Joback Method
hvap	68.04	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	3.752		Crippen Method
mcvol	199.450	ml/mol	McGowan Method
pc	2284.95	kPa	Joback Method
rinpol	3104.00		NIST Webbook
rinpol	3104.00		NIST Webbook
tb	726.17	K	Joback Method
tc	956.97	K	Joback Method
tf	456.37	K	Joback Method
vc	0.768	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	549.05	J/mol×K	726.17	Joback Method
cpg	614.74	J/mol×K	918.50	Joback Method
cpg	603.29	J/mol×K	880.04	Joback Method
cpg	591.10	J/mol×K	841.57	Joback Method
cpg	578.06	J/mol×K	803.10	Joback Method
cpg	564.08	J/mol×K	764.64	Joback Method
cpg	625.52	J/mol×K	956.97	Joback Method
dvisc	0.0005817	Pa×s	726.17	Joback Method

dvisc	0.0006548	Pa×s	681.20	Joback Method
dvisc	0.0007494	Pa×s	636.24	Joback Method
dvisc	0.0008755	Pa×s	591.27	Joback Method
dvisc	0.0010494	Pa×s	546.30	Joback Method
dvisc	0.0012993	Pa×s	501.34	Joback Method
dvisc	0.0016780	Pa×s	456.37	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415128&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

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