Fluoranthene, 3-methyl

Inchi: InChI=1S/C17H12/c1-11-9-10-16-14-6-3-2-5-13(14)15-8-4-7-12(11)17(15)16/h2-10H,1H3
InchiKey: XHJKUHDKEFRGSK-UHFFFAOYSA-N
Formula: C17H12
SMILES: Cc1ccc2c3c(cccc13)-c1ccccc1-2
Mol. weight [g/mol]: 216.28

Physical Properties

Property code	Value	Unit	Source
gf	489.97	kJ/mol	Joback Method
hf	335.66	kJ/mol	Joback Method
hfus	26.70	kJ/mol	Joback Method
hvap	61.98	kJ/mol	Joback Method
log10ws	-7.20		Crippen Method
logp	4.796		Crippen Method
mcvol	172.550	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
rinpol	366.64		NIST Webbook
tb	679.22	K	Joback Method
tc	930.34	K	Joback Method
tf	449.71	K	Joback Method
vc	0.675	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.75	J/mol×K	679.22	Joback Method
cpg	496.08	J/mol×K	888.49	Joback Method
cpg	485.29	J/mol×K	846.63	Joback Method
cpg	474.06	J/mol×K	804.78	Joback Method
cpg	462.19	J/mol×K	762.93	Joback Method
cpg	449.48	J/mol×K	721.07	Joback Method
cpg	506.62	J/mol×K	930.34	Joback Method
dvisc	0.0013026	Pa×s	679.22	Joback Method
dvisc	0.0013691	Pa×s	640.97	Joback Method

dvisc	0.0014482	Pa×s	602.72	Joback Method
dvisc	0.0015435	Pa×s	564.47	Joback Method
dvisc	0.0016605	Pa×s	526.21	Joback Method
dvisc	0.0018069	Pa×s	487.96	Joback Method
dvisc	0.0019946	Pa×s	449.71	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R565330&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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