

8-Methylfluoranthene

Inchi:	InChI=1S/C17H12/c1-11-8-9-13-14-6-2-4-12-5-3-7-15(17(12)14)16(13)10-11/h2-10H,1H3
InchiKey:	IRQRKGIRFAUXIH-UHFFFAOYSA-N
Formula:	C17H12
SMILES:	Cc1ccc2c(c1)-c1cccc3cccc-2c13
Mol. weight [g/mol]:	216.28
CAS:	20485-57-8

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
mvol	172.550	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
rinpol	362.76		NIST Webbook
rinpol	362.76		NIST Webbook
tb	679.22	K	Joback Method
tc	930.34	K	Joback Method
tf	449.71	K	Joback Method
vc	0.675	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.75	J/molxK	679.22	Joback Method
cpg	449.48	J/molxK	721.07	Joback Method
cpg	462.19	J/molxK	762.93	Joback Method
cpg	474.06	J/molxK	804.78	Joback Method
cpg	485.29	J/molxK	846.63	Joback Method
cpg	496.08	J/molxK	888.49	Joback Method
cpg	506.62	J/molxK	930.34	Joback Method

dvisc	0.0019946	Paxs	449.71	Joback Method
dvisc	0.0018069	Paxs	487.96	Joback Method
dvisc	0.0016605	Paxs	526.21	Joback Method
dvisc	0.0015435	Paxs	564.47	Joback Method
dvisc	0.0014482	Paxs	602.72	Joback Method
dvisc	0.0013691	Paxs	640.97	Joback Method
dvisc	0.0013026	Paxs	679.22	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=C20485578&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
mvol:	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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