2-Hydroxyfluorene

Other names:	9H-Fluoren-2-ol
	Fluoren-2-ol
	2-Fluorenol
Inchi:	InChI=1S/C13H10O/c14-11-5-6-13-10(8-11)7-9-3-1-2-4-12(9)13/h1-6,8,14H,7H2
InchiKey:	ZDOIAPGLORMKTR-UHFFFAOYSA-N
Formula:	C13H10O
SMILES:	Oc1ccc2c(c1)Cc1ccccc1-2
Mol. weight [g/mol]:	182.22
CAS:	2443-58-5

Physical Properties

Property code	Value	Unit	Source
gf	202.18	kJ/mol	Joback Method
hf	66.62	kJ/mol	Joback Method
hfus	23.78	kJ/mol	Joback Method
hvap	63.30	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	2.963		Crippen Method
mcvol	141.520	ml/mol	McGowan Method
pc	4046.64	kPa	Joback Method
rinpol	277.30		NIST Webbook
rinpol	1941.00		NIST Webbook
tb	643.65	K	Joback Method
tc	900.64	K	Joback Method
tf	455.09	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.01	J/mol×K	643.65	Joback Method
cpg	366.25	J/mol×K	686.48	Joback Method
cpg	377.47	J/mol×K	729.31	Joback Method
cpg	387.89	J/mol×K	772.14	Joback Method

cpg	397.73	J/mol×K	814.97	Joback Method
cpg	407.20	J/mol×K	857.80	Joback Method
cpg	416.53	J/mol×K	900.64	Joback Method
dvisc	0.0007657	Pa×s	455.09	Joback Method
dvisc	0.0004782	Pa×s	486.52	Joback Method
dvisc	0.0003162	Pa×s	517.94	Joback Method
dvisc	0.0002192	Pa×s	549.37	Joback Method
dvisc	0.0001581	Pa×s	580.80	Joback Method
dvisc	0.0001179	Pa×s	612.22	Joback Method
dvisc	0.0000905	Pa×s	643.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2443585&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

Latest version available from: