

9-Phenyl-9-fluorenol

Other names:	9H-Fluoren-9-ol, 9-phenyl-
Inchi:	InChI=1S/C19H14O/c20-19(14-8-2-1-3-9-14)17-12-6-4-10-15(17)16-11-5-7-13-18(16)19
InchiKey:	UJPHBDAPVWFPTG-UHFFFAOYSA-N
Formula:	C19H14O
SMILES:	OC1(c2ccccc2)c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	258.31
CAS:	25603-67-2

Physical Properties

Property code	Value	Unit	Source
gf	369.71	kJ/mol	Joback Method
hf	199.29	kJ/mol	Joback Method
hfus	26.44	kJ/mol	Joback Method
hvap	81.14	kJ/mol	Joback Method
log10ws	-5.57		Crippen Method
logp	3.951		Crippen Method
mcvol	202.300	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
tb	814.74	K	Joback Method
tc	1064.07	K	Joback Method
tf	517.89	K	Joback Method
vc	0.765	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.06	J/mol×K	814.74	Joback Method
cpg	588.59	J/mol×K	856.29	Joback Method
cpg	603.03	J/mol×K	897.85	Joback Method
cpg	617.68	J/mol×K	939.40	Joback Method
cpg	632.87	J/mol×K	980.96	Joback Method
cpg	648.87	J/mol×K	1022.51	Joback Method
cpg	666.02	J/mol×K	1064.07	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C25603672&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
h vap:	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

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