

9-Fluorenone-2-carboxylic acid

Other names:	Fluorenone-2-carboxylic acid 9H-Fluorene-2-carboxylic acid, 9-oxo- 9-Oxo-2-fluorenenecarboxylic acid 9-oxofluoren-2-carboxylic acid
Inchi:	InChI=1S/C14H8O3/c15-13-11-4-2-1-3-9(11)10-6-5-8(14(16)17)7-12(10)13/h1-7H,(H,16,
InchiKey:	BJCTXUUKONLPPK-UHFFFAOYSA-N
Formula:	C14H8O3
SMILES:	O=C(O)c1ccc2c(c1)C(=O)c1ccccc1-2
Mol. weight [g/mol]:	224.21
CAS:	784-50-9

Physical Properties

Property code	Value	Unit	Source
gf	-32.74	kJ/mol	Joback Method
hf	-190.69	kJ/mol	Joback Method
hfus	25.39	kJ/mol	Joback Method
hvap	80.85	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	2.596		Crippen Method
mcvol	158.750	ml/mol	McGowan Method
pc	3708.97	kPa	Joback Method
tb	804.76	K	Joback Method
tc	1043.25	K	Joback Method
tf	546.13	K	Joback Method
vc	0.610	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.37	J/mol×K	804.76	Joback Method
cpg	439.96	J/mol×K	844.51	Joback Method
cpg	448.88	J/mol×K	884.26	Joback Method
cpg	457.21	J/mol×K	924.01	Joback Method
cpg	465.02	J/mol×K	963.76	Joback Method

cpg	472.41	J/mol×K	1003.50	Joback Method
cpg	479.43	J/mol×K	1043.25	Joback Method

Sources

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=C784509&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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