

2-Fluorenamine

Other names:	2-Fluoreneamine 2-Fluorenylamine 2-aminofluorene 9H-Fluoren-2-amine Aminofluoren Fluoren-2-amine fluoren-2-ylamine fluorene, 2-amino-
Inchi:	InChI=1S/C13H11N/c14-11-5-6-13-10(8-11)7-9-3-1-2-4-12(9)13/h1-6,8H,7,14H2
InchiKey:	CFRFHWQYWJMEJN-UHFFFAOYSA-N
Formula:	C13H11N
SMILES:	<chem>Nc1ccc2c(c1)Cc1cccc1-2</chem>
Mol. weight [g/mol]:	181.23
CAS:	153-78-6

Physical Properties

Property code	Value	Unit	Source
gf	413.62	kJ/mol	Joback Method
hf	266.25	kJ/mol	Joback Method
hfus	22.80	kJ/mol	Joback Method
hvap	61.59	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	2.840		Crippen Method
mcvol	145.630	ml/mol	McGowan Method
pc	3547.31	kPa	Joback Method
rinpol	332.10		NIST Webbook
rinpol	332.10		NIST Webbook
rinpol	331.91		NIST Webbook
tb	640.54	K	Joback Method
tc	896.04	K	Joback Method
tf	404.15 ± 2.00	K	NIST Webbook
tf	400.94	K	Experimental and computational study of the thermodynamic properties of 2-nitrofluorene and 2-aminofluorene
vc	0.550	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	361.54	J/molxK	640.54	Joback Method
cpg	374.87	J/molxK	683.12	Joback Method
cpg	387.10	J/molxK	725.71	Joback Method
cpg	398.37	J/molxK	768.29	Joback Method
cpg	408.83	J/molxK	810.88	Joback Method
cpg	418.63	J/molxK	853.46	Joback Method
cpg	427.91	J/molxK	896.04	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Experimental and computational study of the thermodynamic properties of 2-aminofluorene and 2-aminofluorene:	https://www.doi.org/10.1016/j.jct.2014.03.005
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=C153786&Units=SI

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/45-909-3/2-Fluorenamine.pdf>

Generated by Cheméo on 2026-06-16 18:04:25.082208332 +0000 UTC m=+5398414.140290557.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.