

9-Aminofluorene

Other names:	9H-Fluoren-9-amine Fluoren-9-amine Fluoren-9-ylamine 5978-75-6 (hydrochloride)
Inchi:	InChI=1S/C13H11N/c14-13-11-7-3-1-5-9(11)10-6-2-4-8-12(10)13/h1-8,13H,14H2
InchiKey:	OUGMRQJTULXVDC-UHFFFAOYSA-N
Formula:	C13H11N
SMILES:	NC1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	181.23
CAS:	525-03-1

Physical Properties

Property code	Value	Unit	Source
gf	415.54	kJ/mol	Joback Method
hf	257.38	kJ/mol	Joback Method
hfus	24.26	kJ/mol	Joback Method
hvap	60.62	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	2.715		Crippen Method
mcvol	145.630	ml/mol	McGowan Method
pc	3472.45	kPa	Joback Method
tb	630.89	K	Joback Method
tc	885.65	K	Joback Method
tf	337.00	K	NIST Webbook
vc	0.549	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.35	J/mol×K	630.89	Joback Method
cpg	379.49	J/mol×K	673.35	Joback Method
cpg	392.44	J/mol×K	715.81	Joback Method
cpg	404.33	J/mol×K	758.27	Joback Method
cpg	415.31	J/mol×K	800.73	Joback Method

cpg	425.53	J/mol×K	843.19	Joback Method
cpg	435.13	J/mol×K	885.65	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	409.00	K	0.30	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C525031&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
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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