N-Methyl-3,4-xylidine

Inchi: InChI=1S/C9H13N/c1-7-4-5-9(10-3)6-8(7)2/h4-6,10H,1-3H3
InchiKey: XXABKSVWHJDSNO-UHFFFAOYSA-N
Formula: C9H13N
SMILES: CNc1ccc(C)c(C)c1
Mol. weight [g/mol]: 135.21

Physical Properties

Property code	Value	Unit	Source
gf	207.44	kJ/mol	Joback Method
hf	37.97	kJ/mol	Joback Method
hfus	17.43	kJ/mol	Joback Method
hvap	45.66	kJ/mol	Joback Method
log10ws	-2.43		Crippen Method
logp	2.345		Crippen Method
mcvol	123.890	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
ripol	1853.20		NIST Webbook
ripol	1853.20		NIST Webbook
tb	492.13	K	Joback Method
tc	704.03	K	Joback Method
tf	295.31	K	Joback Method
vc	0.467	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.09	J/mol×K	492.13	Joback Method
cpg	274.56	J/mol×K	527.45	Joback Method
cpg	287.34	J/mol×K	562.76	Joback Method
cpg	299.43	J/mol×K	598.08	Joback Method
cpg	310.87	J/mol×K	633.40	Joback Method
cpg	321.67	J/mol×K	668.71	Joback Method
cpg	331.85	J/mol×K	704.03	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R305465&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume