

# N-Methyl-p-cumidine

<b>Other names:</b>	Aniline, p-isopropyl-N-methyl-,
<b>Inchi:</b>	InChI=1S/C10H15N/c1-8(2)9-4-6-10(11-3)7-5-9/h4-8,11H,1-3H3
<b>InchiKey:</b>	RQZGOIJRSJWNRB-UHFFFAOYSA-N
<b>Formula:</b>	C10H15N
<b>SMILES:</b>	CNc1ccc(C(C)C)cc1
<b>Mol. weight [g/mol]:</b>	149.23
<b>CAS:</b>	6950-79-4

## Physical Properties

Property code	Value	Unit	Source
gf	223.05	kJ/mol	Joback Method
hf	23.52	kJ/mol	Joback Method
hfus	16.88	kJ/mol	Joback Method
hvap	46.84	kJ/mol	Joback Method
log10ws	-2.67		Crippen Method
logp	2.852		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	2950.48	kPa	Joback Method
rinpol	1286.40		NIST Webbook
tb	509.59	K	Joback Method
tc	721.82	K	Joback Method
tf	279.06	K	Joback Method
vc	0.516	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.12	J/molxK	509.59	Joback Method
cpg	320.37	J/molxK	544.96	Joback Method
cpg	334.75	J/molxK	580.33	Joback Method
cpg	348.31	J/molxK	615.70	Joback Method
cpg	361.08	J/molxK	651.07	Joback Method
cpg	373.08	J/molxK	686.44	Joback Method
cpg	384.35	J/molxK	721.82	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	384.70	K	1.50	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39528e+01
Coeff. B	-4.04365e+03
Coeff. C	-8.07150e+01
Temperature range (K), min.	376.62
Temperature range (K), max.	548.66

## Sources

McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6950794&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6950794&amp;Units=SI</a>
The Yaws Handbook of Vapor Pressure:	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## 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

<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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