

# Tetracyclo[3.2.0.02,7.04,6]heptane-1,5-dicarbonitr

<b>Other names:</b>	Tetracyclo[3.2.0.0
<b>Inchi:</b>	InChI=1S/C9H6N2/c10-2-8-4-1-5-7(6(4)8)9(5,8)3-11/h4-7H,1H2
<b>InchiKey:</b>	CEEUJBOISPRDSX-UHFFFAOYSA-N
<b>Formula:</b>	C9H6N2
<b>SMILES:</b>	N#CC12C3CC4C(C31)C42C#N
<b>Mol. weight [g/mol]:</b>	142.16
<b>CAS:</b>	13283-33-5

## Physical Properties

Property code	Value	Unit	Source
gf	568.36	kJ/mol	Joback Method
hf	412.47	kJ/mol	Joback Method
hfus	14.66	kJ/mol	Joback Method
hvap	52.46	kJ/mol	Joback Method
log10ws	-1.45		Crippen Method
logp	0.916		Crippen Method
mcvol	96.990	ml/mol	McGowan Method
pc	3407.89	kPa	Joback Method
tb	606.23	K	Joback Method
tc	845.64	K	Joback Method
tf	449.85	K	Joback Method
vc	0.454	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.08	J/molxK	606.23	Joback Method
cpg	283.76	J/molxK	646.13	Joback Method
cpg	290.79	J/molxK	686.03	Joback Method
cpg	297.62	J/molxK	725.94	Joback Method
cpg	304.69	J/molxK	765.84	Joback Method
cpg	312.45	J/molxK	805.74	Joback Method
cpg	321.34	J/molxK	845.64	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13283335&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13283335&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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