

# 1,3-Cyclobutanediamine, n,n'-diphenyl-2,2,4,4-tetramethyl-

Inchi:	InChI=1S/C20H26N2/c1-19(2)17(21-15-11-7-5-8-12-15)20(3,4)18(19)22-16-13-9-6-10-14
InchiKey:	QJXQIRIBSXDMJF-UHFFFAOYSA-N
Formula:	C20H26N2
SMILES:	CC1(C)C(Nc2ccccc2)C(C)(C)C1Nc1ccccc1
Mol. weight [g/mol]:	294.43
CAS:	1445-33-6

## Physical Properties

Property code	Value	Unit	Source
gf	535.66	kJ/mol	Joback Method
hf	159.97	kJ/mol	Joback Method
hfus	32.49	kJ/mol	Joback Method
hvap	74.39	kJ/mol	Joback Method
log10ws	-5.29		Crippen Method
logp	5.014		Crippen Method
mcvol	254.240	ml/mol	McGowan Method
pc	1883.80	kPa	Joback Method
tb	808.18	K	Joback Method
tc	1054.01	K	Joback Method
tf	522.82	K	Joback Method
vc	0.952	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	797.30	J/mol×K	808.18	Joback Method
cpg	819.85	J/mol×K	849.15	Joback Method
cpg	842.20	J/mol×K	890.12	Joback Method
cpg	864.74	J/mol×K	931.10	Joback Method
cpg	887.81	J/mol×K	972.07	Joback Method
cpg	911.78	J/mol×K	1013.04	Joback Method
cpg	937.02	J/mol×K	1054.01	Joback Method

# Sources

<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=C1445336&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1445336&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>h vap:</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>m cvol:</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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