

# Triphenyl guanidine

<b>Inchi:</b>	InChI=1S/C19H17N3/c20-19(21-16-10-4-1-5-11-16)22(17-12-6-2-7-13-17)18-14-8-3-9-15
<b>InchiKey:</b>	RYCFRVNAZOREPC-UHFFFAOYSA-N
<b>Formula:</b>	C19H17N3
<b>SMILES:</b>	<chem>N=C(Nc1ccccc1)N(c1ccccc1)c1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	287.36
<b>CAS:</b>	603-53-2

## Physical Properties

Property code	Value	Unit	Source
gf	850.10	kJ/mol	Joback Method
hf	593.43	kJ/mol	Joback Method
hvap	85.28	kJ/mol	Joback Method
log10ws	-6.32		Crippen Method
logp	4.872		Crippen Method
mvol	232.930	ml/mol	McGowan Method
tb	861.11	K	Joback Method
tf	537.06	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.53	J/molxK	861.11	Joback Method
cpg	25.31	J/molxK	100.12	Joback Method
cpg	25.31	J/molxK	100.12	Joback Method
cpg	25.31	J/molxK	100.12	Joback Method
cpg	25.31	J/molxK	100.12	Joback Method
cpg	25.31	J/molxK	100.12	Joback Method
cpg	25.31	J/molxK	100.12	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=C603532&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C603532&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>tb:</b>	Normal Boiling Point Temperature
<b>tf:</b>	Normal melting (fusion) point

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