# N''-Isobutyl-N,N,N',N'-tetramethyl -guanidine

**Inchi:** InChI=1S/C9H21N3/c1-8(2)7-10-9(11(3)4)12(5)6/h8H,7H2,1-6H3
**InchiKey:** CKJXIIJERUAQNR-UHFFFAOYSA-N
**Formula:** C9H21N3
**SMILES:** CC(C)CN=C(N(C)C)N(C)C
**Mol. weight [g/mol]:** 171.28

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -26.88 | kJ/mol | Joback Method |
| hvap | 42.72 | kJ/mol | Joback Method |
| log10ws | -0.64 | | Crippen Method |
| logp | 1.122 | | Crippen Method |
| mcvol | 163.310 | ml/mol | McGowan Method |
| pc | 2108.07 | kPa | Joback Method |
| rinpol | 1163.00 | | NIST Webbook |
| rinpol | 1163.00 | | NIST Webbook |
| tb | 506.32 | K | Joback Method |
| tc | 691.91 | K | Joback Method |

## Sources

**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
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R153145&Units=SI

## Legend

**hf:** Enthalpy of formation 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |