

## [3.3.3]Propellane, 2,8-bis(methylene)-

**Inchi:** InChI=1S/C13H18/c1-10-4-8-12-6-3-7-13(10,12)11(2)5-9-12/h1-9H2  
**InchiKey:** WOEZXEPTVDIMMB-UHFFFAOYSA-N  
**Formula:** C13H18  
**SMILES:** C=C1CCC23CCCC12C(=C)CC3  
**Mol. weight [g/mol]:** 174.28  
**CAS:** 112112-57-9

### Physical Properties

Property code	Value	Unit	Source
gf	319.52	kJ/mol	Joback Method
hf	113.73	kJ/mol	Joback Method
hfus	3.65	kJ/mol	Joback Method
hvap	42.94	kJ/mol	Joback Method
ie	8.90	eV	NIST Webbook
log10ws	-4.17		Crippen Method
logp	3.843		Crippen Method
mcvol	152.850	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
tb	529.07	K	Joback Method
tc	764.26	K	Joback Method
tf	362.45	K	Joback Method
vc	0.584	m <sup>3</sup> /kmol	Joback Method

### Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.24	J/mol×K	529.07	Joback Method
cpg	399.99	J/mol×K	568.27	Joback Method
cpg	417.99	J/mol×K	607.47	Joback Method
cpg	434.57	J/mol×K	646.66	Joback Method
cpg	450.08	J/mol×K	685.86	Joback Method
cpg	464.86	J/mol×K	725.06	Joback Method
cpg	479.25	J/mol×K	764.26	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C112112579&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C112112579&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>
<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>

# 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>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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

Latest version available from:

<https://www.chemeo.com/cid/57-350-0/3-3-3-Propellane-2-8-bis-methylene.pdf>

Generated by Cheméo on 2024-04-28 16:43:58.086750329 +0000 UTC m=+16611887.007327651.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.