

# Amorphene

<b>Inchi:</b>	InChI=1S/C15H24/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h6,9-10,13-15H,5,7-8H2
<b>InchiKey:</b>	QMAYBMKBYCGXDH-SOUVJXGZSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	CC1=CC2C(CC1)C(C)=CCC2C(C)C
<b>Mol. weight [g/mol]:</b>	204.35

## Physical Properties

Property code	Value	Unit	Source
gf	179.03	kJ/mol	Joback Method
hf	-164.97	kJ/mol	Joback Method
hfus	21.69	kJ/mol	Joback Method
hvap	50.71	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	4.581		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	1921.98	kPa	Joback Method
rinpol	1451.00		NIST Webbook
rinpol	1452.00		NIST Webbook
ripol	1455.00		NIST Webbook
tb	576.33	K	Joback Method
tc	791.72	K	Joback Method
tf	287.93	K	Joback Method
vc	0.723	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.29	J/molxK	576.33	Joback Method
cpg	526.08	J/molxK	612.23	Joback Method
cpg	547.54	J/molxK	648.13	Joback Method
cpg	567.74	J/molxK	684.03	Joback Method
cpg	586.71	J/molxK	719.93	Joback Method
cpg	604.51	J/molxK	755.83	Joback Method
cpg	621.19	J/molxK	791.72	Joback Method

dvisc	0.0020754	Paxs	287.93	Joback Method
dvisc	0.0012375	Paxs	336.00	Joback Method
dvisc	0.0008398	Paxs	384.06	Joback Method
dvisc	0.0006213	Paxs	432.13	Joback Method
dvisc	0.0004882	Paxs	480.20	Joback Method
dvisc	0.0004008	Paxs	528.26	Joback Method
dvisc	0.0003401	Paxs	576.33	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R229891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R229891&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<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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