

# 3(10),4-Caradiene

<b>Inchi:</b>	InChI=1S/C10H14/c1-7-4-5-8-9(6-7)10(8,2)3/h4-5,8-9H,1,6H2,2-3H3/t8-,9+/m1/s1
<b>InchiKey:</b>	DZRRJUYNXUPJFU-BDAKNGLRSA-N
<b>Formula:</b>	C10H14
<b>SMILES:</b>	C=C1C=CC2C(C1)C2(C)C
<b>Mol. weight [g/mol]:</b>	134.22

## Physical Properties

Property code	Value	Unit	Source
gf	212.56	kJ/mol	Joback Method
hf	26.63	kJ/mol	Joback Method
hfus	10.66	kJ/mol	Joback Method
hvap	36.84	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.775		Crippen Method
mcvol	121.440	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
rinpol	991.00		NIST Webbook
rinpol	991.00		NIST Webbook
tb	439.84	K	Joback Method
tc	649.54	K	Joback Method
tf	268.92	K	Joback Method
vc	0.469	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.21	J/mol×K	439.84	Joback Method
cpg	275.30	J/mol×K	474.79	Joback Method
cpg	291.05	J/mol×K	509.74	Joback Method
cpg	305.61	J/mol×K	544.69	Joback Method
cpg	319.11	J/mol×K	579.64	Joback Method
cpg	331.68	J/mol×K	614.59	Joback Method
cpg	343.46	J/mol×K	649.54	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=R127572&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R127572&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvp:</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>rlnol:</b>	Non-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

Latest version available from:

<https://www.cheméo.com/cid/35-558-4/3-10-4-Caradiene.pdf>

Generated by Cheméo on 2024-04-25 20:42:55.857660379 +0000 UTC m=+16367024.778237691.

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