

# Tricyclo[5.2.1.0<sup>2,6</sup>]deca-2,5-diene

<b>Other names:</b>	Tricyclo[5.2.1.0
<b>Inchi:</b>	InChI=1S/C10H12/c1-2-9-7-4-5-8(6-7)10(9)3-1/h2-3,7-8H,1,4-6H2
<b>InchiKey:</b>	UKZSKSGXADHPPH-UHFFFAOYSA-N
<b>Formula:</b>	C10H12
<b>SMILES:</b>	C1=C2C(=CC1)C1CCC2C1
<b>Mol. weight [g/mol]:</b>	132.20
<b>CAS:</b>	6675-72-5

## Physical Properties

Property code	Value	Unit	Source
gf	251.84	kJ/mol	Joback Method
hf	75.47	kJ/mol	Joback Method
hfus	14.56	kJ/mol	Joback Method
hvap	39.98	kJ/mol	Joback Method
ie	7.96	eV	NIST Webbook
log10ws	-2.92		Crippen Method
logp	2.673		Crippen Method
mcvol	110.580	ml/mol	McGowan Method
pc	3509.58	kPa	Joback Method
tb	465.64	K	Joback Method
tc	687.19	K	Joback Method
tf	283.56	K	Joback Method
vc	0.431	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.62	J/mol×K	465.64	Joback Method
cpg	261.24	J/mol×K	502.56	Joback Method
cpg	276.53	J/mol×K	539.49	Joback Method
cpg	290.62	J/mol×K	576.41	Joback Method
cpg	303.60	J/mol×K	613.34	Joback Method
cpg	315.60	J/mol×K	650.26	Joback Method
cpg	326.71	J/mol×K	687.19	Joback Method

dvisc	0.0008755	Paxs	283.56	Joback Method
dvisc	0.0009147	Paxs	313.91	Joback Method
dvisc	0.0009483	Paxs	344.25	Joback Method
dvisc	0.0009774	Paxs	374.60	Joback Method
dvisc	0.0010029	Paxs	404.95	Joback Method
dvisc	0.0010253	Paxs	435.29	Joback Method
dvisc	0.0010452	Paxs	465.64	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=C6675725&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6675725&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>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

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