

# 2,2,7,7-tetramethyl-1,6-dioxaspiro[4.4]nona-3,8-diene

<b>Inchi:</b>	InChI=1S/C11H16O2/c1-9(2)5-7-11(12-9)8-6-10(3,4)13-11/h5-8H,1-4H3
<b>InchiKey:</b>	XBYJEPZKXGPIKK-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O2
<b>SMILES:</b>	CC1(C)C=CC2(C=CC(C)(C)O2)O1
<b>Mol. weight [g/mol]:</b>	180.24

## Physical Properties

Property code	Value	Unit	Source
gf	-9.56	kJ/mol	Joback Method
hf	-266.31	kJ/mol	Joback Method
hfus	14.79	kJ/mol	Joback Method
hvap	46.26	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.413		Crippen Method
mcvol	147.270	ml/mol	McGowan Method
pc	3145.56	kPa	Joback Method
ripol	1288.00		NIST Webbook
tb	525.64	K	Joback Method
tc	765.78	K	Joback Method
tf	361.17	K	Joback Method
vc	0.548	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.59	J/mol×K	525.64	Joback Method
cpg	384.29	J/mol×K	565.66	Joback Method
cpg	400.31	J/mol×K	605.69	Joback Method
cpg	415.07	J/mol×K	645.71	Joback Method
cpg	428.99	J/mol×K	685.73	Joback Method
cpg	442.49	J/mol×K	725.75	Joback Method
cpg	455.98	J/mol×K	765.78	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=R307530&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R307530&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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>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>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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