

# DI-trans-5,6-di-tert-butyl-2-hydroxy-1,4-diketo-2-cy

<b>Inchi:</b>	InChI=1S/C14H22O3/c1-13(2,3)10-8(15)7-9(16)12(17)11(10)14(4,5)6/h7,10-11,16H,1-6H
<b>InchiKey:</b>	PQLUOEUDBQLIIE-UHFFFAOYSA-N
<b>Formula:</b>	C14H22O3
<b>SMILES:</b>	CC(C)(C)C1C(=O)C=C(O)C(=O)C1C(C)(C)C
<b>Mol. weight [g/mol]:</b>	238.32
<b>CAS:</b>	3791-04-6

## Physical Properties

Property code	Value	Unit	Source
gf	-272.25	kJ/mol	Joback Method
hf	-697.13	kJ/mol	Joback Method
hfus	14.04	kJ/mol	Joback Method
hvap	70.41	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.905		Crippen Method
mcvol	201.970	ml/mol	McGowan Method
pc	2125.60	kPa	Joback Method
tb	760.10	K	Joback Method
tc	981.94	K	Joback Method
tf	466.06	K	Joback Method
vc	0.749	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	631.88	J/molxK	760.10	Joback Method
cpg	648.72	J/molxK	797.07	Joback Method
cpg	664.29	J/molxK	834.05	Joback Method
cpg	678.60	J/molxK	871.02	Joback Method
cpg	691.67	J/molxK	907.99	Joback Method
cpg	703.50	J/molxK	944.97	Joback Method
cpg	714.11	J/molxK	981.94	Joback Method

# Sources

<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=C3791046&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3791046&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>

# 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>mccvol:</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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