

# Tricosane-2,4-dione

<b>Other names:</b>	2,4-Tricosanedione
<b>Inchi:</b>	InChI=1S/C23H44O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-23(25)21-22(2)
<b>InchiKey:</b>	KFELSVDHCYCWPY-UHFFFAOYSA-N
<b>Formula:</b>	C23H44O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCC(=O)CC(C)=O
<b>Mol. weight [g/mol]:</b>	352.59
<b>CAS:</b>	65351-36-2

## Physical Properties

Property code	Value	Unit	Source
gf	-115.06	kJ/mol	Joback Method
hf	-743.21	kJ/mol	Joback Method
hfus	58.52	kJ/mol	Joback Method
hvap	80.28	kJ/mol	Joback Method
log10ws	-8.01		Crippen Method
logp	7.576		Crippen Method
mcvol	338.070	ml/mol	McGowan Method
pc	918.27	kPa	Joback Method
rinpol	2619.60		NIST Webbook
rinpol	2619.60		NIST Webbook
tb	833.38	K	Joback Method
tc	1020.75	K	Joback Method
tf	448.83	K	Joback Method
vc	1.335	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1089.15	J/molxK	833.38	Joback Method
cpg	1178.82	J/molxK	989.52	Joback Method
cpg	1162.87	J/molxK	958.29	Joback Method
cpg	1145.98	J/molxK	927.07	Joback Method
cpg	1128.09	J/molxK	895.84	Joback Method
cpg	1109.17	J/molxK	864.61	Joback Method

cpg	1193.85	J/molxK	1020.75	Joback Method
dvisc	0.0000617	Paxs	833.38	Joback Method
dvisc	0.0000830	Paxs	769.29	Joback Method
dvisc	0.0001178	Paxs	705.20	Joback Method
dvisc	0.0001795	Paxs	641.11	Joback Method
dvisc	0.0003002	Paxs	577.01	Joback Method
dvisc	0.0005709	Paxs	512.92	Joback Method
dvisc	0.0013047	Paxs	448.83	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=C65351362&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C65351362&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>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>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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