

# 2,3-Dimethyltricyclo[2.2.1.0<sup>2,6</sup>]heptane-3-carboxy

Inchi:  
acid

InChI=1S/C10H14O2/c1-9(8(11)12)5-3-6-7(4-5)10(6,9)2/h5-7H,3-4H2,1-2H3,(H,11,12)

InchiKey:

QHDPITNBVDSMQH-UHFFFAOYSA-N

Formula:

C10H14O2

SMILES:

CC1(C(=O)O)C2CC3C(C2)C31C

Mol. weight [g/mol]:

166.22

CAS:

562-66-3

## Physical Properties

Property code	Value	Unit	Source
gf	-52.37	kJ/mol	Joback Method
hf	-294.02	kJ/mol	Joback Method
hfus	15.49	kJ/mol	Joback Method
hvap	57.75	kJ/mol	Joback Method
log10ws	-1.58		Crippen Method
logp	1.753		Crippen Method
mcvol	126.620	ml/mol	McGowan Method
pc	3633.35	kPa	Joback Method
rinpol	1271.20		NIST Webbook
tb	577.07	K	Joback Method
tc	779.86	K	Joback Method
tf	413.39	K	Joback Method
vc	0.501	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	357.84	J/molxK	577.07	Joback Method
cpg	370.23	J/molxK	610.87	Joback Method
cpg	381.73	J/molxK	644.67	Joback Method
cpg	392.55	J/molxK	678.46	Joback Method
cpg	402.92	J/molxK	712.26	Joback Method
cpg	413.10	J/molxK	746.06	Joback Method
cpg	423.30	J/molxK	779.86	Joback Method

# Sources

<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=C562663&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C562663&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>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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