

# [1,1,1-2H3]-4-Benzyloxy-2-butanone

<b>Inchi:</b>	InChI=1S/C11H14O2/c1-10(12)7-8-13-9-11-5-3-2-4-6-11/h2-6H,7-9H2,1H3/i1D3
<b>InchiKey:</b>	BTOZGSIVA ZGXCH-FIBGUPNXSA-N
<b>Formula:</b>	C11H14O2
<b>SMILES:</b>	CC(=O)CCOCc1ccccc1
<b>Mol. weight [g/mol]:</b>	181.25

## Physical Properties

Property code	Value	Unit	Source
gf	-79.77	kJ/mol	Joback Method
hf	-278.64	kJ/mol	Joback Method
hfus	21.07	kJ/mol	Joback Method
hvap	51.51	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	2.182		Crippen Method
mvol	149.530	ml/mol	McGowan Method
pc	2778.85	kPa	Joback Method
rinpol	1463.00		NIST Webbook
rinpol	1463.00		NIST Webbook
tb	554.05	K	Joback Method
tc	763.32	K	Joback Method
tf	312.31	K	Joback Method
vc	0.568	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.39	J/molxK	554.05	Joback Method
cpg	360.84	J/molxK	588.93	Joback Method
cpg	374.48	J/molxK	623.81	Joback Method
cpg	387.33	J/molxK	658.68	Joback Method
cpg	399.42	J/molxK	693.56	Joback Method
cpg	410.76	J/molxK	728.44	Joback Method
cpg	421.37	J/molxK	763.32	Joback Method
dvisc	0.0023060	Paxs	312.31	Joback Method

dvisc	0.0012165	Paxs	352.60	Joback Method
dvisc	0.0007317	Paxs	392.89	Joback Method
dvisc	0.0004838	Paxs	433.18	Joback Method
dvisc	0.0003432	Paxs	473.47	Joback Method
dvisc	0.0002569	Paxs	513.76	Joback Method
dvisc	0.0002006	Paxs	554.05	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=R412390&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R412390&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</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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