

# 2-Propen-1-one, 2-methyl-1-phenyl-

<b>Inchi:</b>	InChI=1S/C10H10O/c1-8(2)10(11)9-6-4-3-5-7-9/h3-7H,1H2,2H3
<b>InchiKey:</b>	KJCFAQDTHMIAAN-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O
<b>SMILES:</b>	<chem>C=C(C)C(=O)c1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	146.19
<b>CAS:</b>	769-60-8

## Physical Properties

Property code	Value	Unit	Source
gf	96.10	kJ/mol	Joback Method
hf	-10.14	kJ/mol	Joback Method
hfus	14.71	kJ/mol	Joback Method
hvap	46.29	kJ/mol	Joback Method
log10ws	-2.82		Crippen Method
logp	2.445		Crippen Method
mcvol	125.270	ml/mol	McGowan Method
pc	3314.37	kPa	Joback Method
tb	505.31	K	Joback Method
tc	729.34	K	Joback Method
tf	263.09	K	Joback Method
vc	0.475	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.43	J/molxK	505.31	Joback Method
cpg	271.88	J/molxK	542.65	Joback Method
cpg	284.43	J/molxK	579.99	Joback Method
cpg	296.13	J/molxK	617.33	Joback Method
cpg	307.00	J/molxK	654.66	Joback Method
cpg	317.11	J/molxK	692.00	Joback Method
cpg	326.49	J/molxK	729.34	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=C769608&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C769608&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>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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