

# 2-Propyn-1-ol, benzoate

<b>Other names:</b>	2-propynyl benzoate
<b>Inchi:</b>	InChI=1S/C10H8O2/c1-2-8-12-10(11)9-6-4-3-5-7-9/h1,3-7H,8H2
<b>InchiKey:</b>	NBDHEMWCIUHARG-UHFFFAOYSA-N
<b>Formula:</b>	C10H8O2
<b>SMILES:</b>	C#CCOC(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	160.17
<b>CAS:</b>	6750-04-5

## Physical Properties

Property code	Value	Unit	Source
gf	134.88	kJ/mol	Joback Method
hf	33.90	kJ/mol	Joback Method
hfus	21.46	kJ/mol	Joback Method
hvap	49.14	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	1.477		Crippen Method
mcvol	126.840	ml/mol	McGowan Method
pc	3659.77	kPa	Joback Method
rinpol	1252.00		NIST Webbook
rinpol	1247.00		NIST Webbook
rinpol	1241.00		NIST Webbook
rinpol	1245.00		NIST Webbook
rinpol	1245.00		NIST Webbook
rinpol	1263.00		NIST Webbook
rinpol	1262.00		NIST Webbook
rinpol	1254.00		NIST Webbook
rinpol	1235.00		NIST Webbook
rinpol	1262.00		NIST Webbook
rinpol	1263.00		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1265.00		NIST Webbook
rinpol	1262.00		NIST Webbook
ripol	2004.00		NIST Webbook
ripol	1981.00		NIST Webbook
ripol	2026.00		NIST Webbook
ripol	2003.00		NIST Webbook
ripol	2004.00		NIST Webbook

ripol	1998.00		NIST Webbook
ripol	2026.00		NIST Webbook
ripol	2017.00		NIST Webbook
ripol	2003.00		NIST Webbook
tb	521.29	K	Joback Method
tc	749.90	K	Joback Method
tf	348.01	K	Joback Method
vc	0.473	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.07	J/mol×K	521.29	Joback Method
cpg	277.09	J/mol×K	559.39	Joback Method
cpg	288.33	J/mol×K	597.49	Joback Method
cpg	298.81	J/mol×K	635.60	Joback Method
cpg	308.56	J/mol×K	673.70	Joback Method
cpg	317.62	J/mol×K	711.80	Joback Method
cpg	326.00	J/mol×K	749.90	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=C6750045&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6750045&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>hvac:</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>ripol:</b>	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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