

# Ethanone, 1-[1,1'-biphenyl]-4-yl-2-bromo-

<b>Other names:</b>	Acetophenone, 2-bromo-4'-phenyl- «alpha»-Bromo-p-phenylacetophenone «omega»-Bromo-4-phenylacetophenone p-Phenylphenacyl bromide Bromomethyl p-biphenyl ketone 2-Bromo-4'-phenylacetophenone 4-Phenylphenacyl bromide «alpha»-Bromo-4-phenylacetophenone p-Phenyl-«alpha»-bromoacetophenone p-Bromoacetyl biphenyl Acetophenone, alpha-bromo-p-phenyl- 1-Biphenyl-4-yl-2-bromoethanone NSC 37117 biphenyl-4-yl bromomethyl ketone
<b>Inchi:</b>	InChI=1S/C14H11BrO/c15-10-14(16)13-8-6-12(7-9-13)11-4-2-1-3-5-11/h1-9H,10H2
<b>InchiKey:</b>	KGHGZRVXCKCJGX-UHFFFAOYSA-N
<b>Formula:</b>	C14H11BrO
<b>SMILES:</b>	O=C(CBr)c1ccc(-c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	275.14
<b>CAS:</b>	135-73-9

## Physical Properties

Property code	Value	Unit	Source
gf	167.59	kJ/mol	Joback Method
hf	43.05	kJ/mol	Joback Method
hfus	26.59	kJ/mol	Joback Method
hvap	65.15	kJ/mol	Joback Method
log10ws	-5.17		Crippen Method
logp	3.931		Crippen Method
mcvol	179.670	ml/mol	McGowan Method
pc	3145.56	kPa	Joback Method
tb	698.09	K	Joback Method
tc	957.04	K	Joback Method
tf	422.63	K	Joback Method
vc	0.671	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	426.04	J/molxK	698.09	Joback Method
cpg	439.70	J/molxK	741.25	Joback Method
cpg	452.15	J/molxK	784.41	Joback Method
cpg	463.48	J/molxK	827.56	Joback Method
cpg	473.80	J/molxK	870.72	Joback Method
cpg	483.20	J/molxK	913.88	Joback Method
cpg	491.77	J/molxK	957.04	Joback Method
dvisc	0.0013511	Paxs	422.63	Joback Method
dvisc	0.0008160	Paxs	468.54	Joback Method
dvisc	0.0005392	Paxs	514.45	Joback Method
dvisc	0.0003813	Paxs	560.36	Joback Method
dvisc	0.0002842	Paxs	606.27	Joback Method
dvisc	0.0002208	Paxs	652.18	Joback Method
dvisc	0.0001773	Paxs	698.09	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=C135739&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C135739&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>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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