

Ethanone, 2-bromo-1-(4-methylphenyl)-

Other names: Acetophenone, 2-bromo-4'-methyl-
«alpha»-Bromo-p-methylacetophenone
«alpha»-Bromo-4-methylacetophenone
«omega»-Bromo-p-methylacetophenone
2-Bromo-p-methylacetophenone
2-Bromo-4'-methylacetophenone
p-Methyl-«alpha»-bromoacetophenone
p-Methyl-«omega»-bromoacetophenone
p-Methylphenacyl bromide
4-Methylphenacyl bromide

Inchi: InChI=1S/C9H9BrO/c1-7-2-4-8(5-3-7)9(11)6-10/h2-5H,6H2,1H3

InchiKey: KRVGXFREOJHJAX-UHFFFAOYSA-N

Formula: C9H9BrO

SMILES: Cc1ccc(C(=O)CBr)cc1

Mol. weight [g/mol]: 213.07

CAS: 619-41-0

Physical Properties

Property code	Value	Unit	Source
gf	13.08	kJ/mol	Joback Method
hf	-90.28	kJ/mol	Joback Method
hfus	19.60	kJ/mol	Joback Method
hvap	51.75	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.573		Crippen Method
mcvol	132.980	ml/mol	McGowan Method
pc	3745.38	kPa	Joback Method
tb	557.01	K	Joback Method
tc	791.91	K	Joback Method
tf	339.86	K	Joback Method
vc	0.499	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.87	J/mol×K	557.01	Joback Method
cpg	280.43	J/mol×K	596.16	Joback Method
cpg	291.18	J/mol×K	635.31	Joback Method
cpg	301.16	J/mol×K	674.46	Joback Method
cpg	310.41	J/mol×K	713.61	Joback Method
cpg	318.99	J/mol×K	752.76	Joback Method
cpg	326.92	J/mol×K	791.91	Joback Method
dvisc	0.0020020	Pa×s	339.86	Joback Method
dvisc	0.0012473	Pa×s	376.05	Joback Method
dvisc	0.0008444	Pa×s	412.24	Joback Method
dvisc	0.0006088	Pa×s	448.44	Joback Method
dvisc	0.0004609	Pa×s	484.63	Joback Method
dvisc	0.0003627	Pa×s	520.82	Joback Method
dvisc	0.0002945	Pa×s	557.01	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C619410&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/34-552-1/Ethanone-2-bromo-1-4-methylphenyl.pdf>

Generated by Cheméo on 2025-12-23 01:17:32.135461361 +0000 UTC m=+6200849.665502015.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.