2-Propanone, 1-(4-methoxyphenyl)-

Other names:	2-Propanone, 1-(p-methoxyphenyl)-
	p-Acetonylanisole
	p-Methoxybenzyl methyl ketone
	Anisketone
	Anisyl methyl ketone
	1-(p-Methoxyphenyl)-2-propanone
	1-(4-Methoxyphenyl)-2-propanone
	4-Methoxyphenylacetone
	p-Methoxyphenylacetone
	4-Methoxybenzyl methyl ketone
	Anisic ketone
	1-(p-Anisyl)-2-propanone
	2-Propanone, (p-methoxyphenyl)-
	4'-Methoxyphenyl-2-propanone
	NSC 22983
	p-Anisylacetone
Inchi:	InChI=1S/C10H12O2/c1-8(11)7-9-3-5-10(12-2)6-4-9/h3-6H,7H2,1-2H3
InchiKey:	WFWKNGZODAOLEO-UHFFFAOYSA-N
Formula:	C10H12O2
SMILES:	COc1ccc(CC(C)=O)cc1
Mol. weight [g/mol]:	164.20
CAS:	122-84-9

Physical Properties

Property code	Value	Unit	Source
gf	-97.82	kJ/mol	Joback Method
hf	-269.47	kJ/mol	Joback Method
hfus	18.10	kJ/mol	Joback Method
hvap	49.95	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	1.827		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3032.27	kPa	Joback Method
rinpol	1384.00		NIST Webbook
rinpol	1411.00		NIST Webbook
rinpol	1381.00		NIST Webbook
rinpol	1384.00		NIST Webbook

rinpol	1381.00		NIST Webbook
rinpol	1385.00		NIST Webbook
rinpol	1374.00		NIST Webbook
ripol	2170.00		NIST Webbook
ripol	2170.00		NIST Webbook
ripol	2185.00		NIST Webbook
tb	536.15	K	Joback Method
tc	749.95	K	Joback Method
tf	313.56	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.27	J/mol×K	536.15	Joback Method
cpg	313.54	J/mol×K	571.78	Joback Method
cpg	326.10	J/mol×K	607.42	Joback Method
cpg	337.97	J/mol×K	643.05	Joback Method
cpg	349.15	J/mol×K	678.68	Joback Method
cpg	359.66	J/mol×K	714.31	Joback Method
cpg	369.52	J/mol×K	749.95	Joback Method
dvisc	0.0017515	Pa×s	313.56	Joback Method
dvisc	0.0010200	Pa×s	350.66	Joback Method
dvisc	0.0006587	Pa×s	387.76	Joback Method
dvisc	0.0004592	Pa×s	424.86	Joback Method
dvisc	0.0003392	Pa×s	461.95	Joback Method
dvisc	0.0002621	Pa×s	499.05	Joback Method
dvisc	0.0002099	Pa×s	536.15	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	418.20	K	3.30	NIST Webbook

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C122849&Units=SI

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume