

Propanoic acid, 2-(4-chlorophenoxy)-2-methyl-, methyl ester

Other names:	CPIB methyl ester 2-(4-Chlorophenoxy)-2-methylpropanoic acid methyl ester Propionic acid, 2-(p-chlorophenoxy)-2-methyl-, methyl ester Clofibrate Me
Inchi:	InChI=1S/C11H13ClO3/c1-11(2,10(13)14-3)15-9-6-4-8(12)5-7-9/h4-7H,1-3H3
InchiKey:	UXIVINXAZVEIMC-UHFFFAOYSA-N
Formula:	C11H13ClO3
SMILES:	<chem>COC(=O)C(C)(C)Oc1ccc(Cl)cc1</chem>
Mol. weight [g/mol]:	228.67
CAS:	55162-41-9

Physical Properties

Property code	Value	Unit	Source
gf	-203.49	kJ/mol	Joback Method
hf	-446.82	kJ/mol	Joback Method
hfus	18.66	kJ/mol	Joback Method
hvap	57.67	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.670		Crippen Method
mcvol	167.640	ml/mol	McGowan Method
pc	2637.96	kPa	Joback Method
rinpol	1473.00		NIST Webbook
rinpol	1474.00		NIST Webbook
rinpol	1472.00		NIST Webbook
ripol	2026.00		NIST Webbook
ripol	2025.00		NIST Webbook
tb	615.65	K	Joback Method
tc	840.24	K	Joback Method
tf	379.40	K	Joback Method
vc	0.624	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	400.61	J/molxK	615.65	Joback Method
cpg	414.32	J/molxK	653.08	Joback Method
cpg	427.11	J/molxK	690.51	Joback Method
cpg	439.01	J/molxK	727.95	Joback Method
cpg	450.04	J/molxK	765.38	Joback Method
cpg	460.23	J/molxK	802.81	Joback Method
cpg	469.60	J/molxK	840.24	Joback Method
dvisc	0.0012806	Paxs	379.40	Joback Method
dvisc	0.0007368	Paxs	418.78	Joback Method
dvisc	0.0004661	Paxs	458.15	Joback Method
dvisc	0.0003171	Paxs	497.52	Joback Method
dvisc	0.0002282	Paxs	536.90	Joback Method
dvisc	0.0001718	Paxs	576.27	Joback Method
dvisc	0.0001342	Paxs	615.65	Joback Method

Sources

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=C55162419&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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