

Glutaric acid, 2-(2-chlorophenoxy)ethyl ethyl ester

Inchi:	InChI=1S/C15H19ClO5/c1-2-19-14(17)8-5-9-15(18)21-11-10-20-13-7-4-3-6-12(13)16/h3-
InchiKey:	LRLXSDHDRHCKHK-UHFFFAOYSA-N
Formula:	C15H19ClO5
SMILES:	CCOC(=O)CCCC(=O)OCCOc1ccccc1Cl
Mol. weight [g/mol]:	314.76

Physical Properties

Property code	Value	Unit	Source
gf	-406.57	kJ/mol	Joback Method
hf	-765.43	kJ/mol	Joback Method
hfus	39.22	kJ/mol	Joback Method
hvap	77.03	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	2.995		Crippen Method
mvol	231.440	ml/mol	McGowan Method
pc	1883.80	kPa	Joback Method
rinpol	2329.00		NIST Webbook
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tb	786.69	K	Joback Method
tc	992.98	K	Joback Method
tf	494.22	K	Joback Method
vc	0.882	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	646.85	J/molxK	786.69	Joback Method
cpg	660.17	J/molxK	821.07	Joback Method
cpg	672.50	J/molxK	855.45	Joback Method
cpg	683.83	J/molxK	889.84	Joback Method
cpg	694.17	J/molxK	924.22	Joback Method
cpg	703.51	J/molxK	958.60	Joback Method
cpg	711.86	J/molxK	992.98	Joback Method
dvisc	0.0005613	Paxs	494.22	Joback Method

dvisc	0.0003415	Paxs	542.97	Joback Method
dvisc	0.0002255	Paxs	591.71	Joback Method
dvisc	0.0001586	Paxs	640.45	Joback Method
dvisc	0.0001173	Paxs	689.20	Joback Method
dvisc	0.0000902	Paxs	737.94	Joback Method
dvisc	0.0000717	Paxs	786.69	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U377314&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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