

Glutaric acid, 3-chlorophenyl 4-bromo-2-methoxyphenyl ester

Inchi:	InChI=1S/C18H16BrClO5/c1-23-16-10-12(19)8-9-15(16)25-18(22)7-3-6-17(21)24-14-5-2
InchiKey:	CRSHMTBQLXOWRG-UHFFFAOYSA-N
Formula:	C18H16BrClO5
SMILES:	COc1cc(Br)ccc1OC(=O)CCCC(=O)Oc1cccc(Cl)c1
Mol. weight [g/mol]:	427.67

Physical Properties

Property code	Value	Unit	Source
gf	-273.84	kJ/mol	Joback Method
hf	-587.43	kJ/mol	Joback Method
hfus	45.53	kJ/mol	Joback Method
hvap	93.74	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	4.792		Crippen Method
mcvol	267.450	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpol	3005.00		NIST Webbook
rinpol	3005.00		NIST Webbook
tb	958.13	K	Joback Method
tc	1198.83	K	Joback Method
tf	639.29	K	Joback Method
vc	1.004	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	742.70	J/molxK	958.13	Joback Method
cpg	752.28	J/molxK	998.25	Joback Method
cpg	760.52	J/molxK	1038.36	Joback Method
cpg	767.42	J/molxK	1078.48	Joback Method
cpg	773.01	J/molxK	1118.59	Joback Method
cpg	777.29	J/molxK	1158.71	Joback Method
cpg	780.29	J/molxK	1198.83	Joback Method
dvisc	0.0002105	Paxs	639.29	Joback Method

dvisc	0.0001428	Paxs	692.43	Joback Method
dvisc	0.0001023	Paxs	745.57	Joback Method
dvisc	0.0000767	Paxs	798.71	Joback Method
dvisc	0.0000596	Paxs	851.85	Joback Method
dvisc	0.0000477	Paxs	904.99	Joback Method
dvisc	0.0000391	Paxs	958.13	Joback Method

Sources

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=U393892&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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