

Glutaric acid, butyl 4-nitrophenyl ester

Inchi:	InChI=1S/C15H19NO6/c1-2-3-11-21-14(17)5-4-6-15(18)22-13-9-7-12(8-10-13)16(19)20/
InchiKey:	DXOVAYAFEMJDOF-UHFFFAOYSA-N
Formula:	C15H19NO6
SMILES:	CCCCOC(=O)CCCC(=O)Oc1ccc([N+](=O)[O-])cc1
Mol. weight [g/mol]:	309.31

Physical Properties

Property code	Value	Unit	Source
gf	-254.09	kJ/mol	Joback Method
hf	-628.23	kJ/mol	Joback Method
hfus	45.19	kJ/mol	Joback Method
hvap	86.82	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.014		Crippen Method
mcvol	230.750	ml/mol	McGowan Method
pc	1996.55	kPa	Joback Method
rinpola	2479.00		NIST Webbook
tb	878.68	K	Joback Method
tc	1102.32	K	Joback Method
tf	585.68	K	Joback Method
vc	0.897	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	698.25	J/molxK	878.68	Joback Method
cpg	710.17	J/molxK	915.95	Joback Method
cpg	720.95	J/molxK	953.23	Joback Method
cpg	730.61	J/molxK	990.50	Joback Method
cpg	739.17	J/molxK	1027.77	Joback Method
cpg	746.64	J/molxK	1065.04	Joback Method
cpg	753.04	J/molxK	1102.32	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=U359196&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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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