

Glutaric acid, but-3-yn-2-yl 2-propylphenyl ester

Inchi:	InChI=1S/C18H22O4/c1-4-9-15-10-6-7-11-16(15)22-18(20)13-8-12-17(19)21-14(3)5-2/h2
InchiKey:	JBVFNOVTKZJBOP-UHFFFAOYSA-N
Formula:	C18H22O4
SMILES:	<chem>C#CC(C)OC(=O)CCCC(=O)Oc1ccccc1CCC</chem>
Mol. weight [g/mol]:	302.36

Physical Properties

Property code	Value	Unit	Source
gf	-43.75	kJ/mol	Joback Method
hf	-392.77	kJ/mol	Joback Method
hfus	41.05	kJ/mol	Joback Method
hvap	76.38	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	3.280		Crippen Method
mvol	247.000	ml/mol	McGowan Method
pc	1762.45	kPa	Joback Method
rinpol	2068.00		NIST Webbook
rinpol	2068.00		NIST Webbook
tb	785.16	K	Joback Method
tc	995.53	K	Joback Method
tf	507.85	K	Joback Method
vc	0.940	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	708.37	J/mol×K	785.16	Joback Method
cpg	723.38	J/mol×K	820.22	Joback Method
cpg	737.33	J/mol×K	855.28	Joback Method
cpg	750.25	J/mol×K	890.35	Joback Method
cpg	762.17	J/mol×K	925.41	Joback Method
cpg	773.11	J/mol×K	960.47	Joback Method
cpg	783.09	J/mol×K	995.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392137&Units=SI
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

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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