

Glutaric acid, butyl 2,6-dimethoxyphenyl ester

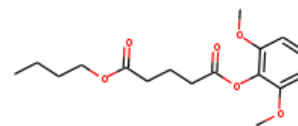
InChI: InChI=1S/C17H24O6/c1-4-5-12-22-15(18)10-7-11-16(19)23-17-13(20-2)8-6-9-14(17)21-3/h6,8-9H,4-5,7,10-12H2,1-3H3

InChI Key: SNDCHVRMVVBTMN-UHFFFAOYSA-N

Formula: C17H24O6

SMILES: CCCOC(=O)CCCC(=O)Oc1c(OC)cccc1OC

Molecular Weight: 324.37



Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-492.43	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-934.66	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	41.00	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	80.17	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	3.12		Crippen Method
P_c	1611.58	kPa	Joback Method
T_{boil}	822.42	K	Joback Method
T_c	1023.77	K	Joback Method
T_{fus}	521.59	K	Joback Method
V_c	0.96	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	760.08	J/mol×K	822.42	Joback Method
η	0.00	Paxs	822.42	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C17H24O6/c1-4-5-12-22-15\(18\)10-7-11-16\(19\)23-17-13\(20-2\)8-6-9-14\(17\)21-3/h6,8-9H,4-5,7,10-12H2,1-3H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C17H24O6/c1-4-5-12-22-15(18)10-7-11-16(19)23-17-13(20-2)8-6-9-14(17)21-3/h6,8-9H,4-5,7,10-12H2,1-3H3)

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/mol×K).

η : Dynamic viscosity (Pa×s).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{fus} : Normal melting (fusion) point (K).

V_c : Critical Volume (m³/kg-mol).

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