

# Glutaric acid, cyclopentyl 2-ethylhexyl ester

**Inchi:** InChI=1S/C18H32O4/c1-3-5-9-15(4-2)14-21-17(19)12-8-13-18(20)22-16-10-6-7-11-16/h1-17,21-22,24-25,27-28,30-31,33-34,36-37,39-40,42-43,45-46,48-49,51-52,54-55,57-58,60-61,63-64,66-67,69-70,72-73,75-76,78-79,81-82,84-85,87-88,90-91,93-94,96-97,99-100,102-103,105-106,108-109,111-112,114-115,117-118,120-121,123-124,126-127,129-130,132-133,135-136,138-139,141-142,144-145,147-148,150-151,153-154,156-157,159-160,162-163,165-166,168-169,171-172,174-175,177-178,180-181,183-184,186-187,189-190,192-193,195-196,198-199,201-202,204-205,207-208,210-211,213-214,216-217,219-220,222-223,225-226,228-229,231-232,234-235,237-238,240-241,243-244,246-247,249-250,252-253,255-256,258-259,261-262,264-265,267-268,270-271,273-274,276-277,279-280,282-283,285-286,288-289,291-292,294-295,297-298,300-301,303-304,306-307,309-310,312-313,315-316,318-319,321-322,324-325,327-328,330-331,333-334,336-337,339-340,342-343,345-346,348-349,351-352,354-355,357-358,360-361,363-364,366-367,369-370,372-373,375-376,378-379,381-382,384-385,387-388,390-391,393-394,396-397,399-400,402-403,405-406,408-409,411-412,414-415,417-418,420-421,423-424,426-427,429-430,432-433,435-436,438-439,441-442,444-445,447-448,450-451,453-454,456-457,459-460,462-463,465-466,468-469,471-472,474-475,477-478,480-481,483-484,486-487,489-490,492-493,495-496,498-499,501-502,504-505,507-508,510-511,513-514,516-517,519-520,522-523,525-526,528-529,531-532,534-535,537-538,540-541,543-544,546-547,549-550,552-553,555-556,558-559,561-562,564-565,567-568,570-571,573-574,576-577,579-580,582-583,585-586,588-589,591-592,594-595,597-598,600-601,603-604,606-607,609-610,612-613,615-616,618-619,621-622,624-625,627-628,630-631,633-634,636-637,639-640,642-643,645-646,648-649,651-652,654-655,657-658,660-661,663-664,666-667,669-670,672-673,675-676,678-679,681-682,684-685,687-688,690-691,693-694,696-697,699-700,702-703,705-706,708-709,711-712,714-715,717-718,720-721,723-724,726-727,729-730,732-733,735-736,738-739,741-742,744-745,747-748,750-751,753-754,756-757,759-760,762-763,765-766,768-769,771-772,774-775,777-778,780-781,783-784,786-787,789-790,792-793,795-796,798-799,801-802,804-805,807-808,810-811,813-814,816-817,819-820,822-823,825-826,828-829,831-832,834-835,837-838,840-841,843-844,845-846,848-849,851-852,854-855,857-858,860-861,863-864,866-867,869-870,872-873,875-876,878-879,881-882,884-885,887-888,890-891,893-894,896-897,899-900,902-903,905-906,908-909,911-912,914-915,917-918,920-921,923-924,926-927,929-930,932-933,935-936,938-939,941-942,944-945,947-948,950-951,953-954,956-957,959-960,962-963,965-966,968-969,971-972,974-975,977-978,980-981,983-984,986-987,989-990,992-993,995-996,998-999,1000-1001,1003-1004,1006-1007,1009-1010,1012-1013,1015-1016,1018-1019,1021-1022,1024-1025,1027-1028,1030-1031,1033-1034,1036-1037,1039-1040,1042-1043,1045-1046,1048-1049,1051-1052,1054-1055,1057-1058,1060-1061,1063-1064,1066-1067,1069-1070,1072-1073,1075-1076,1078-1079,1081-1082,1084-1085,1087-1088,1090-1091,1093-1094,1096-1097,1099-1100,1102-1103,1105-1106,1108-1109,1111-1112,1114-1115,1117-1118,1120-1121,1123-1124,1126-1127,1129-1130,1132-1133,1135-1136,1138-1139,1141-1142,1144-1145,1147-1148,1150-1151,1153-1154,1156-1157,1159-1160,1162-1163,1165-1166,1168-1169,1171-1172,1174-1175,1177-1178,1180-1181,1183-1184,1186-1187,1189-1190,1192-1193,1195-1196,1198-1199,1201-1202,1204-1205,1207-1208,1210-1211,1213-1214,1216-1217,1219-1220,1222-1223,1225-1226,1228-1229,1231-1232,1234-1235,1237-1238,1240-1241,1243-1244,1246-1247,1249-1250,1252-1253,1255-1256,1258-1259,1261-1262,1264-1265,1267-1268,1270-1271,1273-1274,1276-1277,1279-1280,1282-1283,1285-1286,1288-1289,1291-1292,1294-1295,1297-1298,1299,1301-1302,1304-1305,1307-1308,1310-1311,1313-1314,1316-1317,1319-1320,1322-1323,1325-1326,1328-1329,1331-1332,1334-1335,1337-1338,1340-1341,1343-1344,1346-1347,1349-1350,1352-1353,1355-1356,1358-1359,1361-1362,1364-1365,1367-1368,1370-1371,1373-1374,1376-1377,1379-1380,1382-1383,1385-1386,1388-1389,1391-1392,1394-1395,1397-1398,1399,1401-1402,1404-1405,1407-1408,1410-1411,1413-1414,1416-1417,1419-1420,1422-1423,1425-1426,1428-1429,1431-1432,1434-1435,1437-1438,1440-1441,1443-1444,1446-1447,1449-1450,1452-1453,1455-1456,1458-1459,1461-1462,1464-1465,1467-1468,1470-1471,1473-1474,1476-1477,1479-1480,1482-1483,1485-1486,1488-1489,1491-1492,1494-1495,1497-1498,1499,1501-1502,1504-1505,1507-1508,1510-1511,1513-1514,1516-1517,1519-1520,1522-1523,1525-1526,1528-1529,1531-1532,1534-1535,1537-1538,1540-1541,1543-1544,1546-1547,1549-1550,1552-1553,1555-1556,1558-1559,1561-1562,1564-1565,1567-1568,1570-1571,1573-1574,1576-1577,1579-1580,1582-1583,1585-1586,1588-1589,1591-1592,1594-1595,1597-1598,1599,1601-1602,1604-1605,1607-1608,1610-1611,1613-1614,1616-1617,1619-1620,1622-1623,1625-1626,1628-1629,1631-1632,1634-1635,1637-1638,1640-1641,1643-1644,1646-1647,1649-1650,1652-1653,1655-1656,1658-1659,1661-1662,1664-1665,1667-1668,1670-1671,1673-1674,1676-1677,1679-1680,1682-1683,1685-1686,1688-1689,1691-1692,1694-1695,1697-1698,1699,1701-17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dvisc	0.0007261	Paxs	490.48	Joback Method
dvisc	0.0004078	Paxs	548.11	Joback Method
dvisc	0.0002556	Paxs	605.75	Joback Method
dvisc	0.0001738	Paxs	663.39	Joback Method
dvisc	0.0001257	Paxs	721.02	Joback Method
dvisc	0.0000953	Paxs	778.66	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405394&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405394&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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